



**BLUE ROCK  
ENVIRONMENTAL, INC.**

**FILE COPY**

Mr. Mark Verhey  
Humboldt County Health Department  
Division of Environmental Health  
100 H Street, Suite 100  
Eureka, California 95501

April 27, 2005

**Re: First Quarter 2005 Groundwater Monitoring and  
Groundwater Extraction System Report  
Fortuna Beacon Petro Mart  
390 South Fortuna Boulevard, Fortuna, CA  
HCDEH LOP No. 12093  
Blue Rock Project No. FNC-3**

Dear Mr. Verhey,

This report presents the results of the first quarter 2005 groundwater monitoring activities and remedial groundwater extraction system status at 390 South Fortuna Boulevard, Fortuna, Humboldt County, California (site) (Figure 1), and was prepared for Humboldt Petroleum, Inc. (HPI) by Blue Rock Environmental, Inc. (Blue Rock). Response to the HCDEH comment letter dated February 14, 2005, will be submitted in a letter by Blue Rock following this report.

#### **Background**

#### Site Description

The site is located in a commercial and residential area of Fortuna, Humboldt County, California. The site is owned by Humboldt Petroleum, Inc.

#### Site History

Four fuel underground storage tanks (USTs) were removed from the site in March 1989 (Figure 1). Delta Environmental Consultants, Inc. (Delta) of Rancho Cordova, California observed the tank removal, and initiated a site investigation. The site is currently under the oversight of the HCDEH.

#### Site Investigation and Corrective Action History

LACO Associates of Eureka, California replaced Delta as the consultant in mid-1989. LACO conducted several phases of soil and groundwater investigation, drilling several soil borings and installing 13 monitoring wells (MW-1 to MW-13) to approximately 20 feet below ground surface (bgs). Five monitoring wells (MW-1, MW-2, MW-4, MW-5, and MW-6) contained light

non-aqueous phase liquid (LNAPL). Dissolved-phase hydrocarbon contamination was widespread and extended off site. In 1992, LACO installed a skimmer system to remove LNAPL from the groundwater. LNAPL decreased significantly after the skimmer system was activated, and has been negligible in MW-1, MW-2, and MW-5 since October 1994.

Emcon of Sacramento continued the groundwater investigation in mid-1994, installed additional borings and prepared a *Corrective Action Plan* for a soil and groundwater remediation system.

Clearwater Group (Clearwater) was retained in July 1995 to complete investigation of the site and prepare bid specifications for installation of the remediation system. In April 1996, Clearwater installed one shallow monitoring well (MW-14, approximately 20 feet bgs) and three deeper wells (DW-1 to DW-3, approximately 40 feet bgs). Clearwater closed MW-9, anticipating construction of a fire station over the well location. Significant concentrations of dissolved hydrocarbons continued to be detected on-site and off-site. As part of the implementation of the final *Site Assessment Work Plan* dated May 9, 1997, two groundwater monitoring wells (MW-15, MW-16) and a hydropunch (HP-1) were installed on July 21, 1998, to assess the lateral extent of petroleum contamination in groundwater.

There are currently 20 monitoring wells at the site (Figure 2): 17 shallow monitoring wells, MW-1 through MW-8, MW-10 through MW-16, and RW-4B and RW-5, screened no deeper than 20 feet bgs; and three deep wells, DW-1 through DW-3, screened from 30 to 40 feet bgs (Table 4).

As an interim remedial action, active LNAPL skimming has been ongoing at the site since LACO installed the skimmers in November 1991 (skimmer placed in well MW-1) and May 1993 (wells MW-4 and MW-5 added to skimmer system and one additional skimmer installed). In their *Remedial Action Plan* dated May 1994, LACO notes that approximately 1,000 gallons of LNAPL had been recovered through the skimmer system. Extrapolating of the removal rate since April 1994, the total volume of LNAPL removed to date through active skimming is estimated to be approximately 1,369 gallons for the period ending September 1998. Active skimming has successfully reduced the extent of LNAPL across the site. Maximum historical thickness of LNAPL ranged between 2.19 feet (MW-5) to 5.71 feet (MW-6) and was consistently observed in wells MW-1, MW-2, MW-4, MW-5, and MW-6 until the skimmers were activated. Due to inadequate operation of the skimmer pump, periodic hand bailing of LNAPL was initiated in January of 1998.

From January 18 to January 20, 2000, Clearwater conducted feasibility tests to evaluate groundwater extraction, soil vapor extraction, dual phase groundwater and soil vapor extraction, and LNAPL recovery as potential remedial alternatives for the site. Test data were used to determine the permeability of the sediments beneath the site and potential zones of influence for groundwater and vapor extraction from individual wells. Data collected from these tests were used to prepare the final remedial action plan. A *Final Remedial Action Plan* was submitted to HCDEH on February 14, 2000. In response to the HCDEH comment letter dated May 8, 2000, Clearwater submitted a *Final Remedial Action Plan Addendum*, dated June 2, 2000. On August 3, 2000, HCDEH approved Clearwater's *Final Remedial Action Plan* as an interim approach and

requested an implementation schedule. On August 23, 2000, Clearwater submitted a *Corrective Action-Phase 1 Workplan Schedule* to the HCDEH.

From October 23 to October 25, 2000, Clearwater supervised the installation of five remedial wells and one soil boring associated with the subject property: RW-1 through RW-5 (Figure 2). These wells were installed in locations to assess and remove the distribution of LNAPL from the subject site. These borings were advanced to 20 feet bgs and well construction consisted of a screened interval from 5 to 20 feet bgs. Elevated concentrations of total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and xylenes (BTEX) were detected in each soil boring except for RW-4. Each boring was therefore converted into a recovery well, except for RW-4, which was grouted. LNAPL was detected in vadose zone soil samples collected from RW-1, RW-2, and RW-3. Boring logs and analytical results confirm that the former tank farm is the source of the contamination. Results from this investigation are presented in Clearwater's *Recovery Well Installation, Fourth Quarter 2000 Groundwater Monitoring Report and Final Remedial Action Plan Addendum*, dated January 19, 2001.

On January 13, 2001, Clearwater deployed a 2-liter capacity passive LNAPL skimmer in monitoring well MW-6 for the purpose of collecting LNAPL in between bi-monthly bailing events. MW-6 was the last remaining well associated with this site that contained LNAPL. Recovery well RW-1 contained 0.02 feet LNAPL during well development, but has not returned and MW-4 has not contained LNAPL since December 1999.

Clearwater prepared a *Final Remedial Action Plan Addendum*, dated January 19, 2001. Results from the recent subsurface investigation indicated that the former tank farm is a major source of contamination and therefore was addressed in the *Addendum*. Remedial activities proposed in the *Addendum* included excavating approximately 1,200 cubic yards of contaminated soil from the former tank farm, extracting groundwater from the open excavation, placing oxygen releasing compounds (ORC) in the saturated zone of the excavation backfill, and installing two groundwater extraction trenches with a treatment compound. This *Addendum* was approved by the HCDEH in a letter dated, February 27, 2001.

In August 2001, Clearwater performed remedial activities detailed in the *Final Remedial Action Plan Addendum*, dated January 19, 2001. Approximately 1,241 tons of hydrocarbon contaminated soil were removed from the site and treated at Bio Industries in Red Bluff, CA. Approximately 9,500 gallons of hydrocarbon contaminated groundwater were removed from the excavation to facilitate digging operations and the installation of groundwater extraction trenches (EX-1 and EX-2). Two groundwater extraction trenches were installed. Pilot testing results determined pumping rate, discharge time and recharge time for each groundwater extraction trench. Results of these activities are presented in Clearwater's *Soil Excavation, Extraction Trench Installation and Groundwater Extraction Pilot Testing Report*, dated September 21, 2001. Clearwater subsequently began operation of the groundwater extraction system in August 2002.

## Field and Laboratory Activities

### Groundwater Monitoring Activities

On March 24, 2005, all wells except for MW-8 and MW-10 were gauged and sampled. Monitoring well RW-4B has been covered by a permanent structure constructed on the neighboring property.

Prior to sampling, an electronic water level indicator was used to gauge depth to water in each well, accurate to within  $\pm 0.01$ -foot. All wells were checked for the presence of light non-aqueous phase liquid (LNAPL) petroleum prior to purging. No measurable thicknesses of LNAPL were observed on groundwater in any of the wells.

In preparation for sampling, the wells were purged of groundwater until sampling parameters (temperature, pH, and conductivity) stabilized.

Following recovery of water levels to at least 80% of their static levels in the other wells, groundwater samples were collected from the wells using disposable polyethylene bailers and transferred to laboratory supplied containers. Sample containers were labeled, documented on a chain-of-custody form, and placed on ice in a cooler for transport to the project laboratory.

Purging instruments were cleaned between use by an Alconox® wash followed by double rinse in clean tap water to prevent cross-contamination. Purge and rinseate water was transferred into the 300-gallon surge tank located on the groundwater extraction treatment system for treatment and disposal.

Groundwater monitoring and well purging information is presented on Gauge Data/Purge Calculations and Purge Data sheets (attached).

### Groundwater Sample Analyses

Groundwater samples were analyzed by Kiff Analytical LLC (Kiff), a DHS-certified laboratory, located in Davis, California, for the following analytes:

- TPHg, BTEX, and MTBE by EPA Method 5030/8260B.

## Groundwater Monitoring Results

### Groundwater Flow Direction and Gradient

Static groundwater in the wells was present beneath the site at depths ranging from approximately 3.06 (MW-13) to 13.70 (MW-1) feet bgs. Gauging data, combined with well elevation data, were used to calculate groundwater elevation, and to generate a groundwater elevation and gradient map. The potentiometric surface for wells screened in the shallow zone

shows a northeast-southwest trending ridge, with localized groundwater flow direction away from the ridge (i.e. southeast, southwest, and northwest) (Figure 3a). The potentiometric surface for wells screened in the lower zone is almost flat, but appears to show flow toward the southwest at a shallow gradient of 0.00035 ft/ft (Figure 3b). The potentiometric surfaces for the shallow and deeper zones are consistent with previous measurements.

It appears that groundwater extraction has influenced the shallow water bearing zone in the vicinity of extraction trench EX-1 and EX-2 (Figure 3a).

#### Groundwater Contaminant Analytical Results

LNAPL:	None
TPHg concentration:	<50 micrograms per liter ( $\mu\text{g/L}$ ) (MW-2, MW-3, MW-5, MW-7, MW-11, MW-13, MW-15, MW-16, DW-1, DW-2, DW-3) to 79,000 $\mu\text{g/L}$ (MW-4)
Benzene concentration:	<0.50 $\mu\text{g/L}$ (MW-2, MW-3, MW-5, MW-7, MW-11, MW-12, MW-13, MW-15, MW-16, DW-1, DW-2, DW-3) to 2,600 $\mu\text{g/L}$ (MW-1)
MTBE Concentration:	<0.50 $\mu\text{g/L}$ (MW-2, MW-3, MW-11, MW-12, MW-13, MW-14, MW-15) to 110 $\mu\text{g/L}$ (MW-1)

Groundwater sample analytical results are shown graphically on Figures 4a, 4b, and 4c, and cumulative groundwater sample analytical results are summarized in Table 1. Copies of the laboratory report and chain-of-custody form are attached.

#### Remarks

Groundwater sample analytical results fall within historical concentration range for the site. It appears that concentrations of MTBE detected in MW-16 may be originating from the adjacent site (Former Cash Oil).

#### **LNAPL Removal Status**

Location:	MW-6
Volume LNAPL removed during quarter:	0.0 gallons
Volume LNAPL removed since January 1998:	123.73 gallons (hand bailing since 9/98)
(Note: It was estimated that prior to 1998 other consultants removed approximately 1,369 gallons of LNAPL from the site).	

Remarks: Monitoring well MW-6 did not contain LNAPL this quarter, and has not contained LNAPL since June 2003.

## **Groundwater Extraction/Discharge Monitoring**

### Operational Data - Groundwater Extraction/Treatment System

Extracted groundwater is treated by passing it through three liquid-phase carbon vessels arranged in series (Figure 5). Influent samples are collected at sample port (Influent), located before the 300 gallon transfer tank (Table 2). Effluent samples are collected at sample port (Effluent), located downstream of the third carbon vessel (Table 2). Treated groundwater is then discharged to the sanitary sewer located on the southwest corner of the site. The groundwater treatment system is operated in accordance with the Fortuna Public Works Department.

The following is a summary of operational data pertaining to the groundwater extraction/treatment system:

- Total effluent discharge: 1,243,580 gallons treated water since startup in August 2002
- Effluent discharge this quarter: 266,600 gallons treated water
- Total TPHg recovery: 30.1 gallons to date (Table 3)
- TPHg recovery this quarter: 5.5 gallons (Table 3)

### System Status - Groundwater Extraction/Treatment System

Groundwater has been extracted from extraction basin EX-1 since initial startup on August 5, 2002. Continuous groundwater extraction from extraction trench EX-2 was started on April 7, 2003, when the previous consultant performed remedial groundwater pumping from MW-6, in an attempt to remove remaining LNAPL from MW-6 and proximal area. This activity was able to remove the remaining LNAPL from MW-6.

### **Project Recommendation**

- Blue Rock recommends continuing groundwater extraction operations and quarterly groundwater monitoring as directed by the HCDEH.

### **Project Status**

- The site is currently being monitored on a quarterly basis per the HCDEH directives. The next quarterly sampling event is scheduled for June 2005. Groundwater samples will be analyzed for TPHg, BTEX, and MTBE. The current groundwater sampling schedule is MW-1, MW-4, MW-5, MW-6, MW-12, MW-14, DW-1, DW-3, and RW-5 (quarterly) and MW-2, MW-3, MW-7, MW-11, MW-13, MW-15, MW-16, DW-2, and RW-4B (annually during first quarter). Monitoring wells MW-8 and MW-10 have been removed from the quarterly sampling schedule. The groundwater extraction system is operational and influent and effluent samples are collected monthly and submitted in subsequent quarterly reports.
- Blue Rock is currently preparing a response to the HCDEH comment letter dated February 14, 2005.

### Certification

This report was prepared under the supervision of a California Professional Geologist at Blue Rock. All statements, conclusions, and recommendations are based upon published results from past consultants, field observations by Blue Rock, and analyses performed by a state-certified laboratory as they relate to the time, location, and depth of points sampled by Blue Rock. Interpretation of data, including spatial distribution and temporal trends, are based on commonly used geologic and scientific principles. It is possible that interpretations, conclusions, and recommendations presented in this report may change, as additional data become available and/or regulations change.

Information and interpretation presented herein are for the sole use of the client and regulating agency. The information and interpretation contained in this document should not be relied upon by a third party.

The service performed by Blue Rock has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area of the site. No other warranty, expressed or implied, is made.

If you have any questions regarding this project, please contact us at (707) 441-1934.

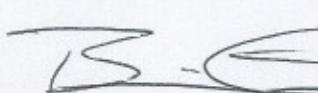
Sincerely,  
Blue Rock Environmental, Inc.

Prepared by:

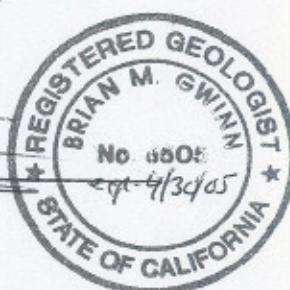


Scott Ferriman  
Project Scientist

Reviewed by:



Brian Gwinn, PG  
Principal Geologist



Attachments:

- Table 1: Groundwater Elevations and Analytical Results
- Table 2: Groundwater Extraction System Analytical Results
- Table 3: Cumulative Hydrocarbon Recovery From Groundwater
- Table 4: Well Construction Details
- First-Order Decay Rates for Dissolved-Phase Hydrocarbons 6/02 to 3/05
- Figure 1: Site Location Map
- Figure 2: Site Plan
- Figure 3a: Groundwater Elevations and Gradient Map, Shallow Wells – 3/24/05
- Figure 3b: Groundwater Elevations and Gradient Map, Deep Wells – 3/24/05
- Figure 4a: Dissolved-Phase TPHg Distribution Map – 3/24/05
- Figure 4b: Dissolved-Phase Benzene Distribution Map – 3/24/05
- Figure 4c: Dissolved-Phase MTBE Distribution Map – 3/24/05
- Figure 5: Groundwater Extraction System Schematic
- Blue Rock Gauge/Purge Calculations and Well Purging Data field sheets
- Laboratory Analytical Report and Chain-of-Custody Form

Distribution:

- Mr. Jim Seiler, Humboldt Petroleum, Inc. P.O. Box 131, Eureka, CA 95502
- City Manager, City of Fortuna, P.O. Box 545, Fortuna, CA 95540

**Table 1**  
**GROUNDWATER ELEVATIONS AND**  
**ANALYTICAL RESULTS**  
 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, California  
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	* SPH (feet)	GWE (feet)	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE µg/L
MW-1	4/5/90	54.63	---	---	---	220,000	2,500	6,700	3,500	19,000	---
	4/9/90	54.63	7.00	0.01	47.64	---	---	---	---	---	---
	5/12/90	54.63	10.84	0.00	43.79	---	---	---	---	---	---
	7/26/90	54.63	---	---	---	87,000	3,600	4,400	4,400	13,000	---
	9/27/90	54.63	17.60	3.60	39.91	---	---	---	---	---	---
	10/23/90	54.63	17.39	3.80	40.28	---	---	---	---	---	---
	11/14/90	54.63	11.63	2.85	45.28	---	---	---	---	---	---
	12/14/90	54.63	12.70	2.87	44.23	---	---	---	---	---	---
	1/11/91	54.63	13.61	2.84	43.29	---	---	---	---	---	---
	2/28/91	54.63	11.30	2.45	45.29	---	---	---	---	---	---
	3/19/91	54.63	9.02	2.75	47.81	---	---	---	---	---	---
	4/16/91	54.63	9.73	3.06	47.35	---	---	---	---	---	---
	6/20/91	54.63	12.95	2.25	43.48	---	---	---	---	---	---
	7/24/91	54.63	14.05	2.11	42.27	---	---	---	---	---	---
	11/21/91	Skimmer activated			---	---	---	---	---	---	---
	1/22/92	54.63	13.16	0.00	41.47	---	---	---	---	---	---
	4/7/92	54.63	9.97	0.00	44.66	---	---	---	---	---	---
	5/4/92	54.63	10.50	0.14	44.24	---	---	---	---	---	---
	6/4/92	54.63	12.96	0.09	41.74	---	---	---	---	---	---
	7/10/92	54.63	14.22	0.05	40.45	---	---	---	---	---	---
	8/5/92	54.63	15.71	0.09	38.99	---	---	---	---	---	---
	10/28/92	54.63	17.03	0.00	37.60	---	---	---	---	---	---
	1/12/93	54.63	12.10	0.00	42.53	---	---	---	---	---	---
	2/4/93	54.63	11.40	0.00	43.23	---	---	---	---	---	---
	5/5/93	54.63	10.40	0.00	44.23	---	---	---	---	---	---
	8/30/93	54.63	15.03	0.08	39.66	---	---	---	---	---	---
	9/14/93	54.63	15.08	0.08	39.61	---	---	---	---	---	---
	10/12/93	54.63	15.51	0.00	39.12	---	---	---	---	---	---
	11/29/93	54.63	16.03	0.00	38.60	---	---	---	---	---	---
	12/21/93	54.63	11.97	0.00	42.66	---	---	---	---	---	---
	1/12/94	54.63	10.08	0.00	44.55	---	---	---	---	---	---
	2/22/94	54.63	7.39	0.00	47.24	---	---	---	---	---	---
	3/24/94	54.63	8.97	0.00	45.66	---	---	---	---	---	---
	4/26/94	54.63	9.43	0.00	45.20	---	---	---	---	---	---
	5/18/94	54.63	10.64	0.00	43.99	---	---	---	---	---	---
	6/20/94	54.63	12.88	0.00	41.75	---	---	---	---	---	---
	9/27/94	54.63	16.18	0.00	38.45	---	---	---	---	---	---
	10/19/94	54.63	16.27	0.00	38.36	---	---	---	---	---	---
	12/23/94	54.63	8.73	0.00	45.90	---	---	---	---	---	---
	3/25/95	54.63	6.62	0.00	48.01	---	---	---	---	---	---
	4/15/96	54.63	6.62	0.00	48.01	11,000	130	10	260	310	3,000
	2/24/97	54.63	5.71	0.00	48.92	6,600	88	<13	150	262	1,200
	5/26/97	54.63	7.41	0.00	47.22	9,600	100	<20	250	360	1,000
	9/5/97	54.63	13.36	0.00	41.27	7,100	13	<20	56	77	190
	12/11/97	54.63	8.40	0.00	46.23	5,100	80	<2.5	22	122	1,900
	4/9/98	54.63	5.49	0.00	49.14	4,000	90	3	120	100	180
	6/22/98	54.63	3.40	0.00	51.23	9,000	140	210	170	391	<250
	9/26/98	54.63	12.72	0.00	41.91	670	4	<0.5	2.6	6.6	160
	1/14/99	54.63	5.93	0.00	48.70	13,000	170	<80	220	435	550
	3/30/99	54.63	5.11	0.00	49.52	95	3.9	<0.5	1.50	1.7	12*
	6/28/99	54.63	9.37	0.00	45.23	9,700	95	24	140	273	120
	10/5/99	54.63	12.57	0.00	42.06	6,200	100	<20	92	175	120
	12/10/99	54.63	10.97	0.00	43.66	7,900	99	<30	63	100	78
	3/23/00	54.63	5.57	0.00	49.06	3,800	79	<40	63	85	33
	6/7/00	54.63	8.02	0.00	46.61	2,160	45	<3.0	48	129	<20 *
	9/14/00	54.63	13.13	0.00	41.50	5,140	251	<3.0	67.5	126	32.3*
	11/29/00	54.63	11.96	0.00	42.67	7,470	44	<30	31	80	<200*

**Table 1**  
**GROUNDWATER ELEVATIONS AND**  
**ANALYTICAL RESULTS**  
 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, California  
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	* SPH (feet)	GWE (feet)	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE µg/L
<b>MW-1</b>	3/21/01	54.63	11.09	0.00	43.54	4,690	42.4	1.5	50.6	133	69.1*
	6/5/01	54.63	12.42	0.00	42.21	5,700	65	1.3	38	110	110*
	9/6/01	54.63	14.98	0.00	39.65	6,100	120	390	51	210	81*
	12/11/01	54.63	11.98	0.00	42.65	7,200	230	640	130	520	230*
	3/12/02	54.63	10.18	0.00	44.45	9,800	220	610	180	660	170*
	6/11/02	54.63	12.12	0.00	42.51	4,800	170	100	67	190	340*
	9/9/02	57.77	15.63	0.00	42.14	4,900	130	28	33	81	280*
	12/20/02	57.77	14.11	0.00	43.66	4,600	95	52	46	170	230*
	3/12/03	57.77	11.51	0.00	46.26	6,100	85	110	87	320	200*
	6/6/03	57.77	11.25	0.00	46.52	4,400	120	20	31	81	180*
	9/17/03	57.77	15.34	0.00	42.43	4,600	170	28	40	79	210*
	12/5/03	57.77	14.22	0.00	43.55	4,000	140	27	43	97	240*
	3/15/04	57.77	9.84	0.00	47.93	4,700	100	23	46	100	140*
	6/9/04	57.77	12.20	0.00	45.57	4,400	240	24	32	59	180*
	9/13/04	57.77	14.54	0.00	43.23	3,800	240	32	33	55	200*
	12/10/04	57.77	12.97	0.00	44.80	5,400	640	47	36	66	150*
	3/24/05	57.77	13.70	0.00	44.07	11,000	2,600	60	42	70	110*
<b>MW-2</b>	4/5/90	55.63	---	---	860,000	4,200	18,000	7,100	47,000	---	---
	4/9/90	55.63	7.19	0.55	48.88	---	---	---	---	---	---
	5/12/90	55.63	9.22	0.15	46.53	---	---	---	---	---	---
	7/26/90	55.63	---	---	81,000	<500	2,600	1,400	13,000	---	---
	9/27/90	55.63	17.80	2.85	40.11	---	---	---	---	---	---
	10/23/90	55.63	18.64	3.90	40.11	---	---	---	---	---	---
	11/14/90	55.63	13.35	3.92	45.42	---	---	---	---	---	---
	12/14/90	55.63	10.15	2.79	47.71	---	---	---	---	---	---
	1/11/91	55.63	11.01	2.79	46.85	---	---	---	---	---	---
	2/28/91	55.63	7.15	0.75	49.08	---	---	---	---	---	---
	3/19/91	55.63	5.62	0.37	50.31	---	---	---	---	---	---
	4/16/91	55.63	6.34	0.49	49.68	---	---	---	---	---	---
	6/20/91	55.63	7.54	0.61	48.58	---	---	---	---	---	---
	7/24/91	55.63	8.00	0.99	48.42	---	---	---	---	---	---
	11/21/91	Skimmer activated		---	---	---	---	---	---	---	---
	1/22/92	55.63	6.61	0.05	49.06	---	---	---	---	---	---
	4/7/92	55.63	6.27	0.00	49.36	---	---	---	---	---	---
	5/4/92	55.63	6.50	0.23	49.31	---	---	---	---	---	---
	6/4/92	55.63	7.16	0.12	48.57	---	---	---	---	---	---
	7/10/92	55.63	11.50	4.08	47.39	---	---	---	---	---	---
	8/5/92	55.63	9.33	0.13	46.40	---	---	---	---	---	---
	10/28/92	55.63	7.75	0.28	48.10	---	---	---	---	---	---
	1/12/93	55.63	5.40	0.00	50.23	---	---	---	---	---	---
	2/4/93	55.63	5.78	0.00	49.85	---	---	---	---	---	---
	5/5/93	55.63	5.80	0.00	49.83	---	---	---	---	---	---
	8/30/93	55.63	13.61	0.03	42.04	---	---	---	---	---	---
	9/14/93	55.63	13.59	0.03	42.06	---	---	---	---	---	---
	10/12/93	55.63	15.84	0.00	39.79	---	---	---	---	---	---
	11/29/93	55.63	7.34	0.02	48.31	---	---	---	---	---	---
	12/21/93	55.63	5.99	0.00	49.64	---	---	---	---	---	---
	1/12/94	55.63	5.83	0.00	49.80	---	---	---	---	---	---
	2/22/94	55.63	4.84	0.00	50.79	---	---	---	---	---	---
	3/24/94	55.63	5.66	0.00	49.97	---	---	---	---	---	---
	4/26/94	55.63	5.62	0.00	50.01	---	---	---	---	---	---
	10/19/94	55.63	12.50	0.01	43.14	---	---	---	---	---	---
	11/23/94	55.63	6.18	0.00	49.45	---	---	---	---	---	---
	12/23/94	55.63	5.89	0.00	49.74	---	---	---	---	---	---
	1/25/95	55.63	5.23	0.00	50.40	---	---	---	---	---	---
	2/23/95	55.63	6.09	0.00	49.54	---	---	---	---	---	---

**Table 1**  
**GROUNDWATER ELEVATIONS AND**  
**ANALYTICAL RESULTS**  
 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, California  
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	* SPH (feet)	GWE (feet)	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE µg/L
MW-2	3/25/95	55.63	5.01	0.00	50.62	---	---	---	---	---	---
	4/15/96	55.63	6.00	0.00	49.63	<50	<0.5	<0.5	<0.5	<2.0	<5.0
	2/24/97	55.63	5.48	0.00	50.15	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/26/97	55.63	6.78	0.00	48.85	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/5/97	55.63	7.61	0.00	48.02	<50	<0.5	<0.5	<0.5	<0.5	31
	12/11/97	55.63	5.37	0.00	50.26	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/9/98	55.63	5.36	0.00	50.27	210	18	44	6	26	<5.0
	6/22/98	55.63	7.46	0.00	48.17	540	8	52	18	87	<5.0
	9/26/98	55.63	8.88	0.00	46.75	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/14/99	55.63	6.17	0.00	49.46	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/30/99	55.63	5.05	0.00	50.58	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	6/28/99	55.63	6.82	0.00	48.81	<50	<0.5	<0.5	<0.5	<0.5	<3.0
	10/5/99	55.63	6.34	0.00	49.29	<50	<0.5	<0.5	<0.5	<1.0	<3.0
	12/10/99	55.63	5.13	0.00	50.50	<50	<0.5	<0.5	<0.5	<1.0	<3.0
	3/23/00	55.63	5.69	0.00	49.94	<50	<0.5	<0.5	<0.5	<1.0	<3.0
	6/7/00	55.63	5.86	0.00	49.77	<50	<0.3	<0.3	<0.3	<0.6	<2.0 *
	9/14/00	55.63	5.80	0.00	49.83	53	1.2	4.5	1.0	5.5	<2.0 *
	11/29/00	55.63	5.72	0.00	49.91	<50	<0.3	<0.3	<0.3	<0.6	<2.0 *
	3/21/01	55.63	5.98	0.00	49.65	<50	<0.3	<0.3	<0.3	<0.6	<2.0 *
	6/5/01	55.63	6.28	0.00	49.35	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	9/6/01	55.63	7.07	0.00	48.56	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	12/11/01	55.63	5.28	0.00	50.35	---	---	---	---	---	---
	3/12/02	55.63	5.61	0.00	50.02	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/11/02	55.63	6.25	0.00	49.38	---	---	---	---	---	---
	9/9/02	58.79	6.67	0.00	52.12	---	---	---	---	---	---
	12/20/02	58.79	4.71	0.00	54.08	---	---	---	---	---	---
	3/12/03	58.79	6.01	0.00	52.78	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/6/03	58.79	6.05	0.00	52.74	---	---	---	---	---	---
	9/17/03	58.79	7.57	0.00	51.22	---	---	---	---	---	---
	12/5/03	58.79	6.68	0.00	52.11	---	---	---	---	---	---
	3/15/04	58.79	5.83	0.00	52.96	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	6/9/04	58.79	6.57	0.00	52.22	---	---	---	---	---	---
	9/13/04	58.79	6.82	0.00	51.97	---	---	---	---	---	---
	12/10/04	58.79	5.28	0.00	53.51	---	---	---	---	---	---
	3/24/05	58.79	5.34	0.00	53.45	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW-3	4/5/90	55.49	---	---	<50	<1.0	<1.0	<1.0	<1.0	4.3	---
	4/9/90	55.49	11.93	---	43.56	---	---	---	---	---	---
	5/12/90	55.49	12.82	---	42.67	---	---	---	---	---	---
	7/26/90	55.49	---	---	<50	<1.0	<1.0	<1.0	<1.0	0.94	---
	9/27/90	55.49	14.91	---	40.58	---	---	---	---	---	---
	10/23/90	55.49	14.70	---	40.79	---	---	---	---	---	---
	11/14/90	55.49	14.38	---	41.11	<50	<0.5	<0.5	<0.5	<0.5	---
	12/14/90	55.49	13.95	---	41.54	---	---	---	---	---	---
	1/11/91	55.49	14.85	---	40.64	---	---	---	---	---	---
	2/28/91	55.49	13.66	---	41.83	<50	<0.5	<0.5	<0.5	<0.5	---
	3/19/91	55.49	11.92	---	43.57	---	---	---	---	---	---
	4/16/91	55.49	11.04	---	44.45	---	---	---	---	---	---
	5/24/91	55.49	---	---	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	6/20/91	55.49	11.55	---	43.94	---	---	---	---	---	---
	7/24/91	55.49	11.74	---	43.75	---	---	---	---	---	---
	1/22/92	55.49	13.28	---	42.21	---	---	---	---	---	---
	4/7/92	55.49	11.53	---	43.96	---	---	---	---	---	---
	5/4/92	55.49	11.17	---	44.32	---	---	---	---	---	---
	6/4/92	55.49	12.68	---	42.81	---	---	---	---	---	---
	7/10/92	55.49	13.62	---	41.87	---	---	---	---	---	---
	8/5/92	55.49	14.14	---	41.35	---	---	---	---	---	---

**Table 1**  
**GROUNDWATER ELEVATIONS AND**  
**ANALYTICAL RESULTS**  
 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, California  
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	* SPH (feet)	GWE (feet)	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE µg/L
MW-3	10/28/92	55.49	16.56	---	38.93	---	---	---	---	---	---
	11/2/92	55.49	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	1/12/93	55.49	13.09	---	42.40	---	---	---	---	---	---
	2/4/93	55.49	12.19	---	43.30	---	---	---	---	---	---
	3/2/93	55.49	11.06	---	44.43	<50	<0.5	1.4	<0.5	0.60	---
	5/5/93	55.49	10.59	---	44.90	---	---	---	---	---	---
	8/30/93	55.49	14.49	---	41.00	<50	<0.5	<0.5	<0.5	<0.5	---
	12/16/93	55.49	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	12/21/93	55.49	14.81	---	40.68	---	---	---	---	---	---
	3/24/94	55.49	12.53	---	42.96	---	---	---	---	---	---
	4/26/94	55.49	12.71	---	42.78	---	---	---	---	---	---
	6/20/94	55.49	13.78	---	41.71	<50	<0.5	<0.5	<0.5	<0.5	---
	9/27/94	55.49	16.68	---	38.81	---	---	---	---	---	---
	10/19/94	55.49	16.88	---	38.61	---	---	---	---	---	---
	11/23/94	55.49	15.65	---	39.84	---	---	---	---	---	---
	12/23/94	55.49	14.09	---	41.40	---	---	---	---	---	---
	1/25/95	55.49	11.66	---	43.83	---	---	---	---	---	---
	2/23/95	55.49	11.61	---	43.88	---	---	---	---	---	---
	3/25/95	55.49	9.84	---	45.65	---	---	---	---	---	---
	4/15/96	55.49	10.40	---	45.09	<1,000	<10	<10	<10	<40	12,000
	2/24/97	55.49	9.85	---	45.64	<50	<0.5	<0.5	<0.5	<0.5	510
	5/25/97	55.49	11.44	---	44.05	110	<0.5	<0.5	<0.5	<0.5	530
	9/5/97	55.49	13.32	---	42.17	360	<0.5	<0.5	<0.5	<0.5	2,000
	12/11/97	55.49	12.26	---	43.23	---	---	---	---	---	---
	4/8/98	55.49	7.80	---	47.69	60	7.1	14	1.2	5	240
	6/22/98	55.49	NM	---	---	---	---	---	---	---	---
	9/26/98	55.49	NM	---	---	---	---	---	---	---	---
	1/14/99	55.49	11.05	---	44.44	---	---	---	---	---	---
	3/30/99	55.49	7.46	---	48.03	<50	<0.5	<0.5	<0.5	<0.5	9.8*
	6/28/99	55.49	--	---	---	---	---	---	---	---	---
	10/5/99	55.49	11.65	---	43.84	---	---	---	---	---	---
	12/10/99	55.49	10.99	---	44.50	---	---	---	---	---	---
	3/23/00	55.49	8.48	---	47.01	<50	<0.5	<0.5	<0.5	<1.0	1.9*
	6/7/00	55.49	9.72	---	45.77	---	---	---	---	---	---
	9/14/00	55.49	10.86	---	44.63	53	0.7	2.9	0.7	3.2	16.4*
	11/29/00	55.49	10.68	---	44.81	<50	<0.3	<0.3	<0.3	<0.6	52.2*
	3/21/01	55.49	9.49	---	46.00	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	6/5/01	55.49	10.29	---	45.20	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	9/6/01	55.49	12.38	---	43.11	<50	<0.5	<0.5	<0.5	<0.5	1.2*
	12/11/01	55.49	10.15	---	45.34	---	---	---	---	---	---
	3/12/02	55.49	5.64	---	49.85	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/11/02	55.49	10.28	---	45.21	---	---	---	---	---	---
	9/9/02	58.62	11.79	---	46.83	---	---	---	---	---	---
	12/20/02	58.62	10.62	---	48.00	---	---	---	---	---	---
	3/12/03	58.62	9.28	---	49.34	<50	6.1	<0.5	<0.5	2.8	70*
	6/6/03	58.62	9.28	---	49.34	---	---	---	---	---	---
	9/17/03	58.62	11.82	---	46.80	---	---	---	---	---	---
	12/5/03	58.62	11.79	---	46.83	---	---	---	---	---	---
	3/15/04	58.62	8.59	---	50.03	<50	<0.5	<0.5	<0.5	<0.5	12*
	6/9/04	58.62	10.28	---	48.34	---	---	---	---	---	---
	9/13/04	58.62	11.89	---	46.73	---	---	---	---	---	---
	12/10/04	58.62	10.39	---	48.23	---	---	---	---	---	---
	3/24/05	58.62	9.00	---	49.62	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
MW-4	11/21/91	Skimmer activated			---	---	---	---	---	---	---
	7/13/92	55.03	---	---	71,000	320	4,300	1,200	7,100	---	---
	10/28/92	55.03	18.32	1.89	38.22	---	---	---	---	---	---

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**GROUNDWATER ELEVATIONS AND**  
**ANALYTICAL RESULTS**  
 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, California  
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	* SPH (feet)	GWE (feet)	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE µg/L
MW-4	11/9/92	55.03	---	(16.25)	---	---	---	---	---	---	---
	1/12/93	55.03	16.69	3.35	41.02	---	---	---	---	---	---
	2/4/93	55.03	14.82	2.46	42.18	---	---	---	---	---	---
	5/5/93	55.03	13.43	2.06	43.25	---	---	---	---	---	---
	5/10/93	55.03	10.81	0.03	44.24	---	---	---	---	---	---
	5/27/93	55.03	12.36	0.09	42.74	---	---	---	---	---	---
	8/30/93	55.03	15.15	0.32	40.14	---	---	---	---	---	---
	9/14/93	55.03	15.60	0.54	39.86	---	---	---	---	---	---
	10/12/93	55.03	15.80	0.00	39.23	---	---	---	---	---	---
	11/29/93	55.03	17.66	0.00	37.37	---	---	---	---	---	---
	12/21/93	55.03	15.08	0.01	39.96	---	---	---	---	---	---
	1/12/94	55.03	14.71	0.00	40.32	---	---	---	---	---	---
	2/22/94	55.03	14.71	0.00	40.32	---	---	---	---	---	---
	3/24/94	55.03	12.91	0.00	42.12	---	---	---	---	---	---
	4/26/94	55.03	12.79	0.00	42.24	---	---	---	---	---	---
	5/18/94	55.03	12.77	0.00	42.26	---	---	---	---	---	---
	6/20/94	55.03	13.77	0.04	41.29	---	---	---	---	---	---
	10/19/94	55.03	16.66	0.12	38.47	---	---	---	---	---	---
	11/23/94	55.03	16.01	0.35	39.30	---	---	---	---	---	---
	12/23/94	55.03	14.62	0.26	40.62	---	---	---	---	---	---
	1/25/95	55.03	12.19	0.05	42.88	---	---	---	---	---	---
	2/23/95	55.03	11.81	0.09	43.29	---	---	---	---	---	---
	3/25/95	55.03	10.55	0.00	44.48	---	---	---	---	---	---
	4/15/96	55.03	11.60	0.55	43.87	---	---	---	---	---	---
	2/24/97	55.03	11.00	0.02	44.05	100,000	3,700	13,000	2,200	14,200	<5,000
	5/26/97	55.03	11.55	0.05	43.52	---	---	---	---	---	---
	9/5/97	55.03	---	0.04	---	---	---	---	---	---	---
	12/11/97	55.03	13.33	0.01	41.71	190,000	5,300	16,000	2,900	16,900	<5,000
	4/8/98	55.03	9.40	0.03	45.65	---	---	---	---	---	---
	6/22/98	55.03	11.71	0.00	43.32	140,000	6,100	15,000	3,000	15,200	1,500
	9/26/98	55.03	14.10	HvySheen	40.93	120,000	6,800	19,000	4,100	16,000	2,400
	1/14/99	55.03	11.62	0.00	43.41	91,000	5,800	20,000	3,000	20,200	*190
	3/30/99	55.03	8.75	0.00	46.28	66,000	3,400	13,000	1,900	13,000	<40
	6/28/99	55.03	12.11	0.02	42.94	---	---	---	---	---	---
	10/5/99	55.03	---	0.08	---	---	---	---	---	---	---
	12/10/99	55.03	---	0.20	---	---	---	---	---	---	---
	3/23/00	55.03	9.85	0.00	45.18	200,000	7,900	20,000	3,300	17,400	<3,000
	6/7/00	55.03	11.81	0.00	43.22	87,900	4,500	10,900	2,470	10,500	579 *
	9/14/00	55.03	13.86	0.00	41.17	173,000	8,250	16,000	6,810	23,400	910*
	11/29/00	55.03	13.36	0.00	41.67	216,000	6,610	16,200	7,370	26,800	<2,000*
	3/21/01	55.03	11.17	0.00	43.86	53,900	3,360	8,460	2,520	8,610	244*
	6/5/01	55.03	12.44	0.00	42.59	85,000	4,600	11,000	3,000	11,000	400*
	9/6/01	55.03	14.94	0.00	40.09	110,000	4,700	13,000	3,200	12,000	360*
	12/11/01	55.03	12.07	0.00	42.96	110,000	5,200	14,000	3,300	15,000	400*
	3/12/02	55.03	10.3	0.00	44.73	75,000	4,700	14,000	2,800	13,000	190*
	6/11/02	55.03	12.16	0.00	42.87	110,000	4,700	16,000	3,300	15,000	150*
	9/9/02	58.18	14.99	0.00	43.19	82,000	4,700	11,000	3,300	11,000	350*
	12/20/02	58.18	13.79	0.00	44.39	94,000	5,100	14,000	3,400	14,000	240*
	3/12/03	58.18	11.42	0.00	46.76	100,000	3,700	18,000	3,100	16,000	<100*
	6/6/03	58.18	11.20	0.00	46.98	120,000	2,400	19,000	2,900	18,000	<50*
	9/17/03	58.18	15.26	0.00	42.92	96,000	2,800	14,000	3,100	16,000	<25*
	12/5/03	58.18	14.41	0.00	43.77	83,000	3,000	12,000	3,000	14,000	<50*
	3/15/04	58.18	9.96	0.00	48.22	81,000	1,500	11,000	1,900	12,000	<25*
	6/9/04	58.18	12.24	0.00	45.94	110,000	1,600	16,000	2,900	17,000	<50*
	9/13/04	58.18	14.63	0.00	43.55	92,000	2,200	12,000	3,200	17,000	<50*
	12/10/04	58.18	13.25	0.00	44.93	79,000	1,500	8,700	2,200	11,000	<20*
	3/24/05	58.18	12.22	0.00	45.96	79,000	1,700	6,900	2,200	11,000	36*

**Table 1**  
**GROUNDWATER ELEVATIONS AND**  
**ANALYTICAL RESULTS**  
 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, California  
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	* SPH (feet)	GWE (feet)	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE µg/L
MW-5	11/21/91	Skimmer activated				---	---	---	---	---	---
	7/13/92	53.41	---	---	---	44,000	270	3,700	850	5,500	---
	9/2/92	53.41	17.14	2.19	38.02	---	---	---	---	---	---
	10/28/92	53.41	17.13	1.91	37.81	---	---	---	---	---	---
	11/9/92	53.41	---	(14.98)	---	---	---	---	---	---	---
	2/4/93	53.41	13.25	1.43	41.30	---	---	---	---	---	---
	5/5/93	53.41	11.40	0.72	42.59	---	---	---	---	---	---
	5/10/93	53.41	11.82	1.17	42.53	---	---	---	---	---	---
	5/27/93	53.41	11.58	0.02	41.85	---	---	---	---	---	---
	8/30/93	53.41	13.12	0.00	40.29	---	---	---	---	---	---
	9/14/93	53.41	13.21	0.00	40.20	---	---	---	---	---	---
	10/12/93	53.41	13.82	0.11	39.68	---	---	---	---	---	---
	12/21/93	53.41	13.31	0.01	40.11	---	---	---	---	---	---
	2/22/94	53.41	10.97	0.00	42.44	---	---	---	---	---	---
	3/24/94	53.41	10.69	0.00	42.72	---	---	---	---	---	---
	4/26/94	53.41	11.34	0.10	42.15	---	---	---	---	---	---
	5/18/94	53.41	11.09	0.00	42.32	---	---	---	---	---	---
	6/20/94	53.41	11.90	0.00	41.51	---	---	---	---	---	---
	9/27/94	53.41	14.98	0.00	38.43	---	---	---	---	---	---
	10/19/94	53.41	14.77	0.03	38.66	---	---	---	---	---	---
	11/23/94	53.41	14.11	0.00	39.30	---	---	---	---	---	---
	12/23/94	53.41	12.63	0.00	40.78	---	---	---	---	---	---
	1/25/95	53.41	10.63	0.00	42.78	---	---	---	---	---	---
	2/23/95	53.41	10.12	0.00	43.29	---	---	---	---	---	---
	3/25/95	53.41	8.74	0.00	44.67	---	---	---	---	---	---
	4/15/96	53.41	9.18	0.00	44.23	1,900	3.1	0.8	9.2	64	<50
	2/24/97	53.41	8.80	0.00	44.61	2,200	<4.0	10	<4.0	5.1	25
	5/26/97	53.41	10.82	0.00	42.59	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/5/97	53.41	12.38	0.00	41.03	56	<0.5	<0.5	<0.5	<0.5	<5.0
	12/11/97	53.41	12.62	0.00	40.79	---	---	---	---	---	---
	4/9/98	53.41	8.68	0.00	44.73	130	16	41	4.6	22	<5.0
	6/22/98	53.41	9.31	0.00	44.10	---	---	---	---	---	---
	9/26/98	53.41	13.20	0.00	40.21	---	---	---	---	---	---
	1/14/99	53.41	11.89	0.00	41.52	---	---	---	---	---	---
	3/30/99	53.41	7.35	0.00	46.06	<50	<0.5	0.65	<0.5	<0.5	<3.0
	6/28/99	53.41	11.04	0.00	42.37	---	---	---	---	---	---
	10/5/99	53.41	13.16	0.00	40.25	---	---	---	---	---	---
	12/10/99	53.41	11.84	0.00	41.57	---	---	---	---	---	---
	3/24/00	53.41	8.21	0.00	45.20	1,200	<4.0	<40	<2.0	<4.0	7.6
	6/7/00	53.41	10.71	0.00	42.70	---	---	---	---	---	---
	9/15/00	53.41	12.85	0.00	40.56	447	<0.3	1.3	0.8	3.0	5.6*
	11/29/00	53.41	12.23	0.00	41.18	833	<3.0	<0.3	<0.3	<0.6	10.2*
	3/21/01	53.41	10.13	0.00	43.28	1,110	<0.3	<0.3	<0.3	<0.6	5*
	6/5/01	53.41	11.41	0.00	42.00	440	<0.5	<0.5	<0.5	<0.5	30*
	9/6/01	53.41	13.62	0.00	39.79	410	<0.5	<0.5	<0.5	<0.5	56*
	12/11/01	53.41	12.02	0.00	41.39	510	<0.5	<0.5	<0.5	<0.5	42*
	3/12/02	53.41	9.54	0.00	43.87	110	<0.5	<0.5	<0.5	<0.5	26*
	6/11/02	53.41	11.53	0.00	41.88	590	<0.5	<0.5	<0.5	<0.5	18*
	9/9/02	56.55	13.38	0.00	43.17	390	<0.5	<0.5	<0.5	<0.5	18*
	12/20/02	56.55	12.26	0.00	44.29	520	<0.5	<0.5	<0.5	<0.5	17*
	3/12/03	56.55	9.83	0.00	46.72	190	<0.5	<0.5	<0.5	<0.5	14*
	6/6/03	56.55	9.78	0.00	46.77	310	<0.5	<0.5	<0.5	<0.5	9.2*
	9/17/03	56.55	13.88	0.00	42.67	100	<0.5	<0.5	<0.5	<0.5	7.4*
	12/5/03	56.55	13.71	0.00	42.84	190	<0.5	<0.5	<0.5	<0.5	9.1*
	3/15/04	56.55	9.02	0.00	47.53	83	<0.5	<0.5	<0.5	<0.5	6.4*
	6/9/04	56.55	11.13	0.00	45.42	73	<0.5	<0.5	<0.5	<0.5	4.9*
	9/13/04	56.55	13.37	0.00	43.18	<50	<0.5	<0.5	<0.5	<0.5	5.1*

**Table 1**  
**GROUNDWATER ELEVATIONS AND**  
**ANALYTICAL RESULTS**  
 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, California  
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	* SPH (feet)	GWE (feet)	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE µg/L
MW-5	12/10/04	56.55	12.05	0.00	44.50	62	<0.5	<0.5	<0.5	<0.5	4.0*
	3/24/05	56.55	9.78	0.00	46.77	<50	<0.5	<0.5	<0.5	<0.5	3.9*
MW-6	11/21/91	Skimmer activated				---	---	---	---	---	---
	7/13/92	52.05	---	---	---	70%	0.66%	4.4%	1.2%	7.1%	---
	9/2/92	52.05	14.40	0.26	37.86	---	---	---	---	---	---
	10/28/92	52.05	14.52	0.26	37.74	---	---	---	---	---	---
	11/9/92	52.05	14.93	0.06	37.17	---	---	---	---	---	---
	1/12/93	52.05	13.65	1.88	39.90	---	---	---	---	---	---
	2/4/93	52.05	14.70	4.46	40.92	---	---	---	---	---	---
	5/5/93	52.05	14.35	6.08	42.56	---	---	---	---	---	---
	5/10/93	52.05	9.80	0.01	42.26	---	---	---	---	---	---
	5/27/93	52.05	14.48	5.71	42.14	---	---	---	---	---	---
	8/30/93	52.05	14.52	2.32	39.39	---	---	---	---	---	---
	9/14/93	52.05	14.60	2.29	39.28	---	---	---	---	---	---
	10/12/93	52.05	13.24	0.06	38.86	---	---	---	---	---	---
	11/29/93	52.05	13.72	0.09	38.40	---	---	---	---	---	---
	12/21/93	52.05	13.56	0.92	39.23	---	---	---	---	---	---
	1/12/94	52.05	13.01	0.67	39.58	---	---	---	---	---	---
	2/22/94	52.05	14.41	4.74	41.43	---	---	---	---	---	---
	3/24/94	52.05	11.19	1.02	41.68	---	---	---	---	---	---
	4/26/94	52.05	10.83	0.10	41.30	---	---	---	---	---	---
	5/18/94	52.05	13.99	4.43	41.60	---	---	---	---	---	---
	6/20/94	52.05	14.15	3.35	40.58	---	---	---	---	---	---
	10/19/94	52.05	15.40	1.91	38.18	---	---	---	---	---	---
	11/23/94	52.05	13.55	0.11	38.59	---	---	---	---	---	---
	12/23/94	52.05	13.43	1.43	39.76	---	---	---	---	---	---
	1/25/95	52.05	12.14	3.07	42.37	---	---	---	---	---	---
	2/23/95	52.05	11.22	2.35	42.71	---	---	---	---	---	---
	3/25/95	52.05	8.99	0.92	43.80	---	---	---	---	---	---
	2/24/97	52.05	8.44	0.70	44.17	220,000	16,000	24,000	3,800	25,100	<5,000
	5/26/97	52.05	---	0.38	---	---	---	---	---	---	---
	9/5/97	52.05	---	0.86	---	---	---	---	---	---	---
	12/11/97	52.05	---	0.75	---	---	---	---	---	---	---
	4/8/98	52.05	7.85	0.68	44.74	---	---	---	---	---	---
	6/22/98	52.05	---	0.14	---	---	---	---	---	---	---
	9/26/98	52.05	---	0.26	---	---	---	---	---	---	---
	1/14/99	52.05	10.75	2.20	43.06	---	---	---	---	---	---
	3/30/99	52.05	6.4	0.20	45.81	---	---	---	---	---	---
	6/28/99	52.05	7.86	0.24	44.43	---	---	---	---	---	---
	10/5/99	52.05	---	1.80	---	---	---	---	---	---	---
	12/10/99	52.05	---	0.75	---	---	---	---	---	---	---
	3/23/00	52.05	---	>2.0	---	---	---	---	---	---	---
	6/7/00	52.05	---	0.90	---	---	---	---	---	---	---
	9/18/00	52.05	---	0.41	---	---	---	---	---	---	---
	11/29/00	52.05	---	0.32	---	---	---	---	---	---	---
	3/22/01	52.05	---	0.15	---	---	---	---	---	---	---
	6/12/01	52.05	---	0.52	---	---	---	---	---	---	---
	9/7/01	52.05	---	0.13	---	---	---	---	---	---	---
	12/11/01	52.05	---	0.17	---	---	---	---	---	---	---
	3/12/02	52.05	---	0.09	---	---	---	---	---	---	---
	6/11/02	52.05	---	0.11	---	---	---	---	---	---	---
	9/9/02	55.20	---	0.02	---	---	---	---	---	---	---
	12/20/02	55.20	---	0.03	---	---	---	---	---	---	---
	3/12/03	55.20	---	0.03	---	---	---	---	---	---	---
	6/6/03	55.20	8.42	0.00	46.78	63,000	490	5,300	1,300	9,300	<20*
	9/17/03	55.20	12.87	0.00	42.33	71,000	1,100	6,200	1,500	10,000	<20*

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 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, California  
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	* SPH (feet)	GWE (feet)	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE µg/L
MW-6	12/5/03	55.20	12.25	0.00	42.95	73,000	1,700	10,000	1,900	13,000	55*
	3/15/04	55.20	7.06	0.00	48.14	44,000	700	3,100	790	6,700	<20*
	6/9/04	55.20	9.73	0.00	45.47	75,000	1,900	4,700	1,300	12,000	<0.5*
	9/13/04	55.20	12.04	0.00	43.16	60,000	1,100	2,400	1,200	9,900	<20*
	12/10/04	55.20	8.46	0.00	46.74	33,000	120	960	660	4,300	<25*
	3/24/05	55.20	10.10	0.00	45.10	33,000	260	690	560	3,300	<5*
MW-7	11/2/92	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	1/12/93	52.07	12.87	---	39.20	---	---	---	---	---	---
	2/4/93	52.07	10.90	---	41.17	---	---	---	---	---	---
	5/5/93	52.07	9.79	---	42.28	---	---	---	---	---	---
	5/10/93	52.07	9.74	---	42.33	<50	<0.5	<0.5	<0.5	<0.5	---
	8/30/93	52.07	12.81	---	39.26	---	---	---	---	---	---
	12/21/93	52.07	12.83	---	39.24	---	---	---	---	---	---
	3/24/94	52.07	10.41	---	41.66	<50	<0.5	<0.5	<0.5	<0.5	---
	4/26/94	52.07	10.76	---	41.31	---	---	---	---	---	---
	9/27/94	52.07	13.82	---	38.25	<50	<0.5	<0.5	<0.5	<0.5	---
	12/23/94	52.07	12.23	---	39.84	---	---	---	---	---	---
	3/25/95	52.07	8.42	---	43.65	---	---	---	---	---	---
	4/15/96	52.07	9.00	---	43.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/24/97	52.07	8.51	---	43.56	<50	<0.5	<0.5	<0.5	<0.5	7.4
	5/25/97	52.07	10.01	---	42.06	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/5/97	52.07	12.50	---	39.57	<50	<0.5	<0.5	<0.5	<0.5	10
	12/11/97	52.07	11.86	---	40.21	---	---	---	---	---	---
	4/8/98	52.07	7.21	---	44.86	<50	<0.5	<0.5	<0.5	<2.0	<5.0
	6/22/98	52.07	11.62	---	40.45	---	---	---	---	---	---
	9/26/98	52.07	NM	---	---	---	---	---	---	---	---
	1/14/99	52.07	12.12	---	39.95	---	---	---	---	---	---
	3/30/99	52.07	7.00	---	45.07	<50	<0.5	<0.5	<0.5	<0.5	<3.0
	6/28/99	52.07	10.86	---	41.21	---	---	---	---	---	---
	10/5/99	52.07	12.54	---	39.53	---	---	---	---	---	---
	12/10/99	52.07	11.22	---	40.85	---	---	---	---	---	---
	3/24/00	52.07	7.93	---	44.14	<50	<0.5	<0.5	<0.5	<1.0	<3.0
	6/7/00	52.07	9.99	---	42.08	---	---	---	---	---	---
	9/15/00	52.07	12.21	---	39.86	<50	0.5	2.0	0.7	2.9	<2.0*
	11/29/00	52.07	11.62	---	40.45	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	3/21/01	52.07	9.24	---	42.83	<50	<0.3	<0.3	<0.3	<0.6	2.3*
	6/5/01	52.07	10.40	---	41.67	<50	<0.5	<0.5	<0.5	<0.5	1.7*
	9/6/01	52.07	12.61	---	39.46	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	12/11/01	52.07	10.93	---	41.14	---	---	---	---	---	---
	3/12/02	52.07	8.52	---	43.55	<50	<0.5	<0.5	<0.5	<0.5	3.4*
	6/11/02	52.07	10.38	---	41.69	---	---	---	---	---	---
	9/9/02	55.22	12.18	---	43.04	---	---	---	---	---	---
	12/20/02	55.22	11.09	---	44.13	---	---	---	---	---	---
	3/12/03	55.22	8.67	---	46.55	<50	<0.5	<0.5	<0.5	<0.5	1.5*
	6/6/03	55.22	8.58	---	46.64	---	---	---	---	---	---
	9/17/03	55.22	13.03	---	42.19	---	---	---	---	---	---
	12/5/03	55.22	12.42	---	42.80	---	---	---	---	---	---
	3/15/04	55.22	7.87	---	47.35	<50	<0.5	<0.5	<0.5	<0.5	1.6*
	6/9/04	55.22	9.91	---	45.31	---	---	---	---	---	---
	9/13/04	55.22	12.15	---	43.07	---	---	---	---	---	---
	12/10/04	55.22	10.91	---	44.31	---	---	---	---	---	---
	3/24/05	55.22	8.62	---	46.60	<50	<0.5	<0.5	<0.5	<0.5	0.57*
MW-8	10/28/92	49.46	11.80	---	37.66	---	---	---	---	---	---
	11/2/92	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---
	1/12/93	49.46	9.35	---	40.11	---	---	---	---	---	---

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**ANALYTICAL RESULTS**  
 Fortuna Beacon Petro Mart  
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 Fortuna, California  
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	* SPH (feet)	GWE (feet)	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE µg/L
MW-8	2/4/93	49.46	8.40	---	41.06	---	---	---	---	---	---
	5/5/93	49.46	7.19	---	42.27	---	---	---	---	---	---
	5/10/93	49.46	7.17	---	42.29	<50	<0.5	<0.5	<0.5	<0.5	---
	8/30/93	49.46	10.10	---	39.36	---	---	---	---	---	---
	12/21/93	49.46	10.19	---	39.27	---	---	---	---	---	---
	3/24/94	49.46	7.76	---	41.70	<50	<0.5	<0.5	<0.5	<0.5	---
	4/26/94	49.46	8.12	---	41.34	---	---	---	---	---	---
	9/27/94	49.46	11.17	---	38.29	---	---	---	---	---	---
	12/23/94	49.46	9.61	---	39.85	---	---	---	---	---	---
	3/25/95	49.46	5.67	---	43.79	---	---	---	---	---	---
	4/15/96	49.46	10.72	---	38.74	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/24/97	49.46	9.52	---	39.94	---	---	---	---	---	---
	5/26/97	49.46	11.78	---	37.68	<50	<0.5	<0.5	<0.5	<0.5	34
	9/5/97	49.46	14.30	---	35.16	<50	<0.5	1.0	<0.5	0.83	<5.0
	12/11/97	49.46	---	---	---	---	---	---	---	---	---
	4/8/98	49.46	6.72	---	42.74	140	21	48	5	25	<5.0
	6/22/98	49.46	8.61	---	40.85	---	---	---	---	---	---
	9/26/98	49.46	12.06	---	37.40	---	---	---	---	---	---
	1/14/99	49.46	9.55	---	39.91	---	---	---	---	---	---
	3/30/99	49.46	6.60	---	42.86	<50	<0.5	<0.5	<0.5	<0.5	<3.0
	6/28/99	49.46	10.79	---	38.67	---	---	---	---	---	---
	10/5/99	49.46	12.65	---	36.81	---	---	---	---	---	---
	12/10/99	49.46	10.33	---	39.13	---	---	---	---	---	---
	3/23/00	49.46	7.41	---	42.05	<50	<0.5	<0.5	<0.5	<1.0	<3.0
	6/7/00	49.46	9.78	---	39.68	---	---	---	---	---	---
	9/14/00	49.46	10.98	---	38.48	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	11/29/00	49.46	11.08	---	38.38	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	3/21/01	49.46	9.13	---	40.33	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	6/5/01	49.46	10.15	---	39.31	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	9/6/01	49.46	12.77	---	36.69	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
Removed from quarterly sampling schedule											
MW-9	10/28/92	51.84	14.06	---	37.78	---	---	---	---	---	---
	11/2/92	---	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	1/12/93	51.84	12.23	---	39.61	---	---	---	---	---	---
	2/4/93	51.84	10.44	---	41.40	---	---	---	---	---	---
	3/2/93	51.84	9.80	---	42.04	<50	<0.5	1.2	<0.5	0.60	---
	5/5/93	51.84	9.20	---	42.64	---	---	---	---	---	---
	8/30/93	51.84	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	12/16/93	51.84	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	12/21/93	51.84	12.55	---	39.29	---	---	---	---	---	---
	3/24/94	51.84	9.88	---	41.96	---	---	---	---	---	---
	4/26/94	51.84	10.32	---	41.52	---	---	---	---	---	---
	9/27/94	51.84	13.48	---	38.36	<50	<0.5	<1.0	<1.0	<1.0	---
	12/23/94	51.84	12.19	---	39.65	---	---	---	---	---	---
	3/25/95	51.84	8.02	---	43.82	---	---	---	---	---	---
	4/1/96	51.84	8.65	---	43.19	<50	<0.5	<0.5	<0.5	<0.5	<5.0
Well closed											
MW-10	10/28/92	55.18	17.15	---	38.03	---	---	---	---	---	---
	11/2/92	---	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	1/12/93	55.18	15.63	---	39.55	---	---	---	---	---	---
	2/4/93	55.18	13.50	---	41.68	---	---	---	---	---	---
	5/5/93	55.18	12.30	---	42.88	---	---	---	---	---	---
	5/10/93	55.18	12.25	---	42.93	<50	<0.5	<0.5	<0.5	<0.5	---
	8/30/93	55.18	15.46	---	39.72	---	---	---	---	---	---
	12/21/93	55.18	15.46	---	39.72	---	---	---	---	---	---

**Table 1**  
**GROUNDWATER ELEVATIONS AND**  
**ANALYTICAL RESULTS**  
 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, California  
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	* SPH (feet)	GWE (feet)	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE µg/L
MW-10	3/24/94	55.18	12.91	---	42.27	<50	<0.5	0.84	<0.5	0.85	---
	4/26/94	55.18	13.19	---	41.99	---	---	---	---	---	---
	9/27/94	55.18	10.81	---	44.37	---	---	---	---	---	---
	12/23/94	55.18	14.84	---	40.34	---	---	---	---	---	---
	3/25/95	55.18	10.71	---	44.47	---	---	---	---	---	---
	4/15/96	55.18	11.48	---	43.70	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/24/97	55.18	11.01	---	44.17	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/25/97	55.18	12.81	---	42.37	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/5/97	55.18	15.19	---	39.99	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	12/11/97	55.18	14.28	---	40.90	---	---	---	---	---	---
	4/8/98	55.18	9.50	---	45.68	<50	<0.5	<0.5	<0.5	<2.0	<5.0
	6/22/98	55.18	12.76	---	42.42	---	---	---	---	---	---
	9/26/98	55.18	14.62	---	40.56	---	---	---	---	---	---
	1/14/99	55.18	12.36	---	42.82	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/30/99	55.18	9.56	---	45.62	<50	<0.5	<0.5	<0.5	<0.5	<3.0
	6/28/99	55.18	12.16	---	43.02	---	---	---	---	---	---
	10/5/99	55.18	15.35	---	39.83	---	---	---	---	---	---
	12/10/99	55.18	13.78	---	41.40	---	---	---	---	---	---
	3/24/00	55.18	10.42	---	44.76	<50	<0.5	<0.5	<0.5	<1.0	<3.0
	6/7/00	55.18	12.65	---	42.53	---	---	---	---	---	---
	9/15/00	55.18	14.77	---	40.41	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	11/29/00	55.18	14.21	---	40.97	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	3/21/01	55.18	11.83	---	43.35	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	6/5/01	55.18	13.01	---	42.17	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	9/6/01	55.18	15.41	---	39.77	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
Removed from quarterly sampling schedule											
MW-11	10/28/92	53.14	15.45	---	37.69	---	---	---	---	---	---
	11/2/92	---	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	1/12/93	53.14	13.18	---	39.96	---	---	---	---	---	---
	2/4/93	53.14	11.90	---	41.24	---	---	---	---	---	---
	3/2/93	53.14	3.88	---	49.26	<50	<0.5	0.60	<0.5	0.50	---
	5/5/93	53.14	7.60	---	45.54	---	---	---	---	---	---
	8/30/93	53.14	13.91	---	39.23	---	---	---	---	---	---
	12/16/93	---	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	12/21/93	53.14	9.96	---	43.18	---	---	---	---	---	---
	3/24/94	53.14	3.46	---	49.68	---	---	---	---	---	---
	4/26/94	53.14	3.83	---	49.31	---	---	---	---	---	---
	6/20/94	53.14	11.76	---	41.38	<50	<0.5	<0.5	<0.5	<0.5	---
	9/27/94	53.14	14.81	---	38.33	119	<0.5	<1.0	<1.0	<1.0	---
	12/23/94	53.14	12.17	---	40.97	---	---	---	---	---	---
	3/25/95	53.14	3.26	---	49.88	<50	---	---	---	---	---
	4/15/96	53.14	6.38	---	46.76	<50	<0.5	<0.5	<0.5	<2.0	<5.0
	2/24/97	53.14	4.36	---	48.78	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/25/97	53.14	10.79	---	42.35	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/5/97	53.14	13.50	---	39.64	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	12/11/97	53.14	6.79	---	46.35	---	---	---	---	---	---
	4/8/98	53.14	4.34	---	48.80	<50	<0.5	<0.5	<0.5	<2.0	<5.0
	6/22/98	53.14	6.79	---	46.35	---	---	---	---	---	---
	9/26/98	53.14	---	---	---	---	---	---	---	---	---
	1/14/99	53.14	6.46	---	46.68	---	---	---	---	---	---
	3/30/99	53.14	3.77	---	49.37	<50	<0.5	<0.5	<0.5	<0.5	<3.0
	6/28/99	53.14	11	---	42.14	---	---	---	---	---	---
	10/5/99	53.14	13.49	---	39.65	---	---	---	---	---	---
	12/10/99	53.14	3.88	---	49.26	---	---	---	---	---	---
	3/24/00	53.14	4.21	---	48.93	<50	<0.5	<0.5	<0.5	<1.0	<3.0
	6/7/00	53.14	4.79	---	48.35	---	---	---	---	---	---

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**GROUNDWATER ELEVATIONS AND**  
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 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, California  
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	* SPH (feet)	GWE (feet)	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE µg/L
<b>MW-11</b>	9/15/00	53.14	12.76	---	40.38	<50	<0.3	1.8	0.9	4.4	31.8*
	11/29/00	53.14	5.03	---	48.11	<50	<0.3	<0.3	<0.3	<0.6	5.8*
	3/21/01	53.14	4.93	---	48.21	<50	<0.3	<0.3	<0.3	<0.6	9.5*
	6/5/01	53.14	7.55	---	45.59	<50	<0.5	<0.5	<0.5	<0.5	48*
	9/6/01	53.14	13.58	---	39.56	<50	<0.5	<0.5	<0.5	<0.5	0.79*
	12/11/01	53.14	10.86	---	42.28	---	---	---	---	---	---
	3/12/02	53.14	8.57	---	44.57	<50	<0.5	<0.5	<0.5	<0.5	5.6*
	6/11/02	53.14	11.22	---	41.92	---	---	---	---	---	---
	9/9/02	56.24	13.17	---	43.07	---	---	---	---	---	---
	12/20/02	56.24	11.81	---	44.43	---	---	---	---	---	---
	3/12/03	56.24	9.37	---	46.87	<50	<0.5	<0.5	<0.5	<0.5	0.72*
	6/6/03	56.24	9.33	---	46.91	---	---	---	---	---	---
	9/17/03	56.24	13.55	---	42.69	---	---	---	---	---	---
	12/5/03	56.24	13.22	---	43.02	---	---	---	---	---	---
	3/15/04	56.24	8.82	---	47.42	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/9/04	56.24	10.86	---	45.38	---	---	---	---	---	---
	9/13/04	56.24	13.15	---	43.09	---	---	---	---	---	---
	12/10/04	56.24	11.89	---	44.35	---	---	---	---	---	---
	3/24/05	56.24	9.60	---	46.64	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
<b>MW-12</b>	12/16/93	---	---	---	670	5.7	19	6.2	48	---	---
	12/21/93	53.73	14.37	---	39.36	---	---	---	---	---	---
	3/24/94	53.73	11.93	---	41.80	3,500	16	88	28	164	---
	4/26/94	53.73	12.28	---	41.45	---	---	---	---	---	---
	9/27/94	53.73	16.24	---	37.49	---	---	---	---	---	---
	12/23/94	53.73	14.26	---	39.47	---	---	---	---	---	---
	3/25/95	53.73	10.17	---	43.56	---	---	---	---	---	---
	4/15/96	53.73	10.45	---	43.28	4,700	9	49	120	530	<300
	2/24/97	53.73	10.46	---	43.27	5,900	<5.0	57	180	750	<50
	5/26/97	53.73	11.51	---	42.22	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/5/97	53.73	13.92	---	39.81	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	12/11/97	53.73	12.60	---	41.13	59	<0.5	<0.5	<0.5	1.3	<5.0
	4/9/98	53.73	8.72	---	45.01	<50	<0.5	<0.5	<0.5	<2.0	<5.0
	6/22/98	53.73	10.37	---	43.36	<50	<0.5	<0.5	<0.5	0.62	<5.0
	9/26/98	53.73	13.35	---	40.38	100	<0.5	<0.5	<0.5	2.60	<5.0
	1/14/99	53.73	11.10	---	42.63	160	<0.5	1.1	2.9	14.4	<11
	3/30/99	53.73	8.49	---	45.24	<50	<0.5	<0.5	<0.5	<0.5	<3.0
	6/28/99	53.73	11.71	---	42.02	<50	<0.5	<0.5	<0.5	<0.5	<3.0
	10/5/99	53.73	14.08	---	39.65	4,200	<8.0	27	200	670	<100
	12/10/99	53.73	13.03	---	40.70	4,700	<3.0	17	160	560	<100
	3/24/00	53.73	9.45	---	44.28	390	<2.0	3.7	26	84	6.0
	6/7/00	53.73	10.42	---	43.31	2,680	<0.3	17	125	435	<2.0 *
	9/15/00	53.73	13.66	---	40.07	1,810	<0.3	9.0	103	277	<2.0 *
	11/29/00	53.73	13.21	---	40.52	3,500	<0.3	7.2	156	467	<2.0 *
	3/21/01	53.73	11.73	---	42.00	4,880	<0.3	7.9	227	566	<2.0 *
	6/5/01	53.73	11.94	---	41.79	2,200	<0.5	6.2	96	270	<0.5*
	9/6/01	53.73	14.17	---	39.56	730	<0.5	1.8	40	83	<0.5*
	12/11/01	53.73	13.04	---	40.69	1,900	81	46	52	110	7.7*
	3/12/02	53.73	9.92	---	43.81	1,800	<0.5	<0.5	31	17	<0.5*
	6/11/02	53.73	11.79	---	41.94	990	<0.5	1.1	52	85	<0.5*
	9/9/02	56.90	13.78	---	43.12	1,600	<0.5	1.3	69	77	<0.5*
	12/20/02	56.90	13.15	---	43.75	850	<0.5	<0.5	31	21	<0.5*
	3/12/03	56.90	10.13	---	46.77	2,700	<0.5	0.63	51	38	<0.5*
	6/6/03	56.90	9.99	---	46.91	890	<0.5	<0.5	21	11	<0.5*
	9/17/03	56.90	14.24	---	42.66	1,600	<0.5	<0.5	55	32	<0.5*
	12/5/03	56.90	13.86	---	43.04	500	<0.5	<0.5	21	7.9	<0.5*

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 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
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 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	* SPH (feet)	GWE (feet)	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE µg/L
MW-12	3/15/04	56.90	9.42	---	47.48	830	<0.5	<0.5	17	5	<0.5*
	6/9/04	56.90	10.71	---	46.19	1,600	<0.5	<0.5	37	17	<0.5*
	9/13/04	56.90	13.80	---	43.10	610	<0.5	<0.5	12	4.0	<0.5*
	12/10/04	56.90	12.62	---	44.28	440	<0.5	<0.5	4.9	4.5	<0.5*
	3/24/05	56.90	10.46	---	46.44	1,600	<0.5	0.58	18	25	<0.5*
MW-13	12/16/93	---	---	---	---	<50	1.4	2.3	<0.5	1.53	---
	12/21/93	52.64	13.38	---	39.26	---	---	---	---	---	---
	3/24/94	52.64	10.73	---	41.91	<50	<0.5	<0.5	<0.5	<0.5	---
	4/26/94	52.64	10.11	---	42.53	---	---	---	---	---	---
	9/27/94	52.64	14.32	---	38.32	<50	<0.5	<1.0	<1.0	<1.0	---
	3/25/95	52.64	2.89	---	49.75	---	---	---	---	---	---
	4/15/96	52.64	3.42	---	49.22	<50	<0.5	<0.5	<0.5	<2.0	<5.0
	2/24/97	52.64	3.05	---	49.59	<50	<0.5	<0.5	<0.5	<0.5	34
	5/25/97	52.64	3.75	---	48.89	<50	<0.5	<0.5	<0.5	<0.5	74
	9/5/97	52.64	4.58	---	48.06	<50	<0.5	<0.5	<0.5	<0.5	22
	12/11/97	52.64	3.82	---	48.82	---	---	---	---	---	---
	4/9/98	52.64	---	---	---	---	---	---	---	---	---
	6/22/98	52.64	3.00	---	49.64	130	<0.5	1.4	0.90	5.8	<5.0
	9/26/98	52.64	4.31	---	48.33	---	---	---	---	---	---
	1/14/99	52.64	3.00	---	49.64	---	---	---	---	---	---
	3/30/99	52.64	3.00	---	49.64	<50	<0.5	<0.5	<0.5	<0.5	<3.0
	6/28/99	52.64	10.86	---	41.78	---	---	---	---	---	---
	10/5/99	52.64	3.53	---	49.11	---	---	---	---	---	---
	12/10/99	52.64	2.99	---	49.65	---	---	---	---	---	---
	3/24/00	52.64	3.22	---	49.42	<50	<0.5	1.3	<0.5	2.5	<3.0
	6/7/00	52.64	3.32	---	49.32	---	---	---	---	---	---
	9/15/00	52.64	3.32	---	49.32	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	11/29/00	52.64	3.17	---	49.47	<50	0.4	2.2	0.3	1.8	<2.0*
	3/21/01	52.64	3.37	---	49.27	<50	<0.3	<0.3	0.4	1.9	<2.0*
	6/5/01	52.64	4.51	---	48.13	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	9/6/01	52.64	4.14	---	48.50	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	12/11/01	52.64	3.08	---	49.56	---	---	---	---	---	---
	3/12/02	52.64	---	---	No Access	---	---	---	---	---	---
	6/11/02	52.64	3.48	---	49.16	---	---	---	---	---	---
	9/9/02	55.81	3.75	---	52.06	---	---	---	---	---	---
	12/20/02	55.81	2.80	---	53.01	---	---	---	---	---	---
	3/12/03	55.81	3.37	---	52.44	<50	<0.5	<0.5	<0.5	<0.5	0.56*
	6/6/03	55.81	3.38	---	52.43	---	---	---	---	---	---
	9/17/03	55.81	---	---	No Access	---	---	---	---	---	---
	12/5/03	55.81	4.24	---	51.57	---	---	---	---	---	---
	3/15/04	55.81	3.31	---	52.50	<50	<0.5	<0.5	<0.5	<0.5	3.1*
	6/9/04	55.81	3.67	---	52.14	---	---	---	---	---	---
	9/13/04	55.81	3.93	---	51.88	---	---	---	---	---	---
	12/10/04	55.81	3.05	---	52.76	---	---	---	---	---	---
	3/24/05	55.81	3.06	---	52.75	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
MW-14	4/15/96	55.17	11.87	---	43.30	3,200	170	<0.5	<0.5	<2.0	---
	2/24/97	55.17	11.56	---	43.61	590	61	<0.5	3.1	<0.5	<5.0
	5/26/97	55.17	12.98	---	42.19	1900	71	<7.0	0.65	1.5	<130
	9/5/97	55.17	15.38	---	39.79	180	16	<0.5	<0.5	<0.5	<5.0
	12/11/97	55.17	---	---	---	---	---	---	---	---	---
	4/9/98	55.17	---	---	---	---	---	---	---	---	---
	6/22/98	55.17	---	---	---	---	---	---	---	---	---
	9/26/98	55.17	12.95	---	42.22	---	---	---	---	---	---
	1/14/99	55.17	10.69	---	44.48	---	---	---	---	---	---
	3/30/99	55.17	8.09	---	47.08	79	2.5	<5.0	<0.5	<0.5	5.9

**Table 1**  
**GROUNDWATER ELEVATIONS AND**  
**ANALYTICAL RESULTS**  
 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, California  
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	* SPH (feet)	GWE (feet)	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE µg/L
MW-14	6/28/99	55.17	11.92	---	43.25	<50	<0.5	<0.5	<0.5	<0.5	<3.0
	10/5/99	55.17	13.68	---	41.49	<50	<0.5	<0.5	<0.5	<1.0	<3.0
	12/10/99	55.17	12.37	---	42.8	<50	1.6	<0.5	<0.5	<1.0	<3.0
	3/23/00	55.17	9.09	---	46.08	<50	1.7	1.2	<0.5	<1.0	<3.0
	6/7/00	55.17	11.16	---	44.01	190	11	<0.3	1.7	3	<2.0*
	9/14/00	55.17	13.29	---	41.88	1,060	106	6.8	15.8	7.3	<2.0*
	11/29/00	55.17	12.64	---	42.53	738	139	12	42	7.7	<2.0*
	3/21/01	55.17	10.27	---	44.90	334	84.4	1.4	22.1	<0.6	<2.0*
	6/5/01	55.17	11.46	---	43.71	<50	4.3	<0.5	1.9	<0.5	<0.5*
	9/6/01	55.17	13.78	---	41.39	570	110	1.6	13	0.95	<0.5*
	12/11/01	55.17	12.04	---	43.13	600	30	2.6	3.1	4.8	<0.5*
	3/12/02	55.17	9.60	---	45.57	990	200	4.5	12	3.5	<0.5*
	6/11/02	55.17	11.56	---	43.61	560	110	2.7	28	1.2	<0.5*
	9/9/02	56.52	13.31	---	43.21	790	75	3.2	22	1.5	<0.5*
	12/20/02	56.52	12.22	---	44.30	1,100	130	7.0	21	8.7	<0.5*
	3/12/03	56.52	9.74	---	46.78	1,300	270	7.0	37	4.0	<0.5*
	6/6/03	56.52	9.71	---	46.81	1,400	100	3.5	45	3.1	<0.5*
	9/17/03	56.52	13.80	---	42.72	2,600	210	38	87	54	<0.5*
	12/5/03	56.52	13.49	---	43.03	2,200	190	23	81	32	<0.5*
	3/15/04	56.52	8.93	---	47.59	1,800	190	8.1	84	8.4	<0.5*
	6/9/04	56.52	11.02	---	45.50	1,900	100	9.6	71	13	<0.5*
	9/13/04	56.52	13.29	---	43.23	1,400	150	6.2	55	1.1	<0.5*
	12/10/04	56.52	12.05	---	44.47	2,300	430	46	68	21	<0.5*
	3/24/05	56.52	9.72	---	46.80	1,800	370	4.9	41	0.64	<0.5*
MW-15	7/23/98	54.21	12.44	---	41.77	<50	<0.5	<0.5	<0.5	0.72	<5.0
	9/26/98	54.21	13.55	---	40.66	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/14/99	54.21	12.15	---	42.06	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/30/99	54.21	8.37	---	45.84	<50	<0.5	<0.5	<0.5	<0.5	<3.0
	6/28/99	54.21	11.96	---	42.25	---	---	---	---	---	---
	10/5/99	54.21	13.61	---	40.60	---	---	---	---	---	---
	12/10/99	54.21	13.88	---	40.33	---	---	---	---	---	---
	3/23/00	54.21	9.43	---	44.78	<50	<0.5	<0.5	<0.5	<1.0	<3.0
	6/7/00	54.21	11.31	---	42.90	---	---	---	---	---	---
	9/14/00	54.21	13.18	---	41.03	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	11/29/00	54.21	12.33	---	41.88	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	3/21/01	54.21	10.29	---	43.92	<70	<0.4	<0.4	<0.4	<0.8	<2.8*
	6/5/01	54.21	11.35	---	42.86	<50	<0.5	<0.5	<0.5	<0.5	0.97*
	9/6/01	54.21	14.01	---	40.20	<50	<0.5	<0.5	<0.5	<0.5	0.57*
	12/11/01	54.21	11.7	---	42.51	---	---	---	---	---	---
	3/12/02	54.21	10.83	---	43.38	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/11/02	54.21	11.57	---	42.64	---	---	---	---	---	---
	9/9/02	57.38	13.29	---	44.09	---	---	---	---	---	---
	12/20/02	57.38	11.81	---	45.57	---	---	---	---	---	---
	3/12/03	57.38	10.07	---	47.31	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/6/03	57.38	9.73	---	47.65	---	---	---	---	---	---
	9/17/03	57.38	13.41	---	43.97	---	---	---	---	---	---
	12/5/03	57.38	13.10	---	44.28	---	---	---	---	---	---
	3/15/04	57.38	8.89	---	48.49	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/9/04	57.38	11.11	---	46.27	---	---	---	---	---	---
	9/13/04	57.38	13.34	---	44.04	---	---	---	---	---	---
	12/10/04	57.38	11.60	---	45.78	---	---	---	---	---	---
	3/24/05	57.38	9.43	---	47.95	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
MW-16	7/23/98	54.44	11.47	---	42.97	<50	<0.5	<0.5	<0.5	<0.5	14
	9/26/98	54.44	14.06	---	40.38	<50	<0.5	<0.5	<0.5	<0.5	6.3
	1/14/99	54.44	11.76	---	42.68	<50	<0.5	<0.5	<0.5	<0.5	11

**Table 1**  
**GROUNDWATER ELEVATIONS AND**  
**ANALYTICAL RESULTS**  
 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, California  
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	* SPH (feet)	GWE (feet)	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE µg/L
<b>MW-16</b>	3/30/99	54.44	9.18	---	45.26	<50	<0.5	<0.5	<0.5	<0.5	7.5
	6/28/99	54.44	12.26	---	42.18	---	---	---	---	---	---
	10/5/99	54.44	14.81	---	39.63	---	---	---	---	---	---
	12/10/99	54.44	13.52	---	40.92	---	---	---	---	---	---
	3/24/00	54.44	10.19	---	44.25	<50	<0.5	<0.5	<0.5	<1.0	23*
	6/7/00	54.44	12.22	---	42.22	---	---	---	---	---	---
	9/15/00	54.44	14.44	---	40.00	<50	<0.3	<0.3	<0.3	<0.6	7.7*
	11/29/00	54.44	13.89	---	40.55	<50	<0.3	<0.3	<0.3	<0.6	2.9*
	3/21/01	54.44	11.55	---	42.89	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	6/5/01	54.44	12.62	---	41.82	<50	<0.5	<0.5	<0.5	<0.5	0.78*
	9/6/01	54.44	14.82	---	39.62	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	12/11/01	54.44	13.21	---	41.23	---	---	---	---	---	---
	3/12/02	54.44	10.81	---	43.63	<50	<0.5	<0.5	<0.5	<0.5	0.71*
	6/11/02	54.44	12.62	---	41.82	---	---	---	---	---	---
	9/9/02	57.56	14.45	---	43.11	---	---	---	---	---	---
	12/20/02	57.56	13.34	---	44.22	---	---	---	---	---	---
	3/12/03	57.56	10.89	---	46.67	<50	<0.5	<0.5	<0.5	<0.5	0.61*
	6/6/03	57.56	10.82	---	46.74	---	---	---	---	---	---
	9/17/03	57.56	14.96	---	42.60	---	---	---	---	---	---
	12/5/03	57.56	14.63	---	42.93	---	---	---	---	---	---
	3/15/04	57.56	10.09	---	47.47	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/9/04	57.56	12.15	---	45.41	---	---	---	---	---	---
	9/13/04	57.56	13.34	---	44.22	---	---	---	---	---	---
	12/10/04	57.56	13.17	---	44.39	---	---	---	---	---	---
	3/24/05	57.56	10.89	---	46.67	<50	<0.5	<0.5	<0.5	<0.5	93*
<b>Deep Well DW-1</b>	4/15/96	54.66	11.46	---	43.20	200	42	2.0	<0.5	2.0	---
	2/24/97	54.66	11.15	---	43.51	<50	<0.5	<0.5	<0.5	<0.5	5.7
	5/25/97	54.66	12.54	---	42.12	<50	<0.5	<0.5	<0.5	<0.5	11
	9/5/97	54.66	14.95	---	39.71	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	12/11/97	54.66	13.60	---	41.06	<50	<0.5	<0.5	<0.5	<0.5	390
	4/9/98	54.66	9.70	---	44.96	<50	<0.5	<0.5	<0.5	<2.0	9
	6/22/98	54.66	10.36	---	44.30	---	---	---	---	---	---
	9/26/98	54.66	14.28	---	40.38	---	---	---	---	---	---
	1/14/99	54.66	12.10	---	42.56	---	---	---	---	---	---
	3/30/99	54.66	9.49	---	45.17	<50	<0.5	<0.5	<0.5	<0.5	630
	6/28/99	54.66	16.26	---	38.40	---	---	---	---	---	---
	10/5/99	54.66	15.02	---	39.64	---	---	---	---	---	---
	12/10/99	54.66	13.72	---	40.94	---	---	---	---	---	---
	3/23/00	54.66	10.46	---	44.20	110	1.1	<0.5	<0.5	<1.0	390*
	6/7/00	54.66	12.47	---	42.19	---	---	---	---	---	---
	9/14/00	54.66	14.73	---	39.93	<50	<0.3	1.1	1.0	1.9	18.7*
	11/29/00	54.66	14.13	---	40.53	<50	13.3	<6	<6	<12	386*
	3/21/01	54.66	11.74	---	42.92	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	6/5/01	54.66	12.93	---	41.73	160	56	<0.5	<0.5	1.7	340*
	9/6/01	54.66	15.12	---	39.54	<50	<0.5	<0.5	<0.5	<0.5	27*
	12/11/01	54.66	13.43	---	41.23	900	240	7.7	4.9	47	310*
	3/12/02	54.66	11.05	---	43.61	510	260	<2	<2	<2	210*
	6/11/02	54.66	12.93	---	41.73	420	120	<0.5	1.4	<0.5	170*
	9/9/02	57.81	14.71	---	43.10	<50	<0.5	<0.5	<0.5	<0.5	17*
	12/20/02	57.81	13.61	---	44.20	<50	<0.5	<0.5	<0.5	<0.5	19*
	3/12/03	57.81	11.20	---	46.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/6/03	57.81	11.13	---	46.68	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	9/17/03	57.81	15.27	---	42.54	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	12/5/03	57.81	14.97	---	42.84	<50	1.7	<0.5	<0.5	<0.5	31*
	3/15/04	57.81	10.40	---	47.41	<50	2.4	<0.5	<0.5	<0.5	33*
	6/9/04	57.81	12.44	---	45.37	<50	<0.5	<0.5	<0.5	<0.5	0.68*

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**GROUNDWATER ELEVATIONS AND**  
**ANALYTICAL RESULTS**  
 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, California  
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	* SPH (feet)	GWE (feet)	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE µg/L
DW-1	9/13/04	57.81	14.68	---	43.13	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	12/10/04	57.81	13.45	---	44.36	<50	<0.5	<0.5	<0.5	<0.5	0.93*
	3/24/05	57.81	11.16	---	46.65	<50	<0.5	<0.5	<0.5	<0.5	0.89*
DW-2	4/15/96	55.05	11.83	---	43.22	<50	<0.5	0.9	0.6	3.0	---
	2/24/97	55.05	11.52	---	43.53	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/25/97	55.05	12.92	---	42.13	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/5/97	55.05	15.31	---	39.74	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	12/11/97	55.05	---	---	---	---	---	---	---	---	---
	4/9/98	55.05	---	---	---	---	---	---	---	---	---
	6/22/98	55.05	---	---	---	---	---	---	---	---	---
	9/26/98	55.05	12.5	---	42.55	---	---	---	---	---	---
	1/14/99	55.05	10.26	---	44.79	---	---	---	---	---	---
	3/30/99	55.05	7.69	---	47.36	<50	<0.5	<0.5	<0.5	<0.5	<3.0
	6/28/99	55.05	14.20	---	40.85	---	---	---	---	---	---
	10/5/99	55.05	13.24	---	41.81	---	---	---	---	---	---
	12/10/99	55.05	11.91	---	43.14	---	---	---	---	---	---
	3/23/00	55.05	8.72	---	46.33	<50	<0.5	<0.5	<0.5	<1.0	<3.0
	6/7/00	55.05	10.72	---	44.33	---	---	---	---	---	---
	9/14/00	55.05	12.89	---	42.16	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	11/29/00	55.05	12.28	---	42.77	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	3/21/01	55.05	9.91	---	45.14	<50	<0.3	<0.3	<0.3	<0.6	<2.0*
	6/5/01	55.05	11.09	---	43.96	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	9/6/01	55.05	13.32	---	41.73	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	12/11/01	55.05	11.59	---	43.46	---	---	---	---	---	---
	3/12/02	55.05	6.21	---	48.84	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/11/02	55.05	11.12	---	43.93	---	---	---	---	---	---
	9/9/02	55.99	12.88	---	43.11	---	---	---	---	---	---
	12/20/02	55.99	11.78	---	44.21	---	---	---	---	---	---
	3/12/03	55.99	9.35	---	46.64	<50	<0.5	<0.5	<0.5	<0.5	<0.5*
	6/6/03	55.99	9.31	---	46.68	---	---	---	---	---	---
	9/17/03	55.99	13.43	---	42.56	---	---	---	---	---	---
	12/5/03	55.99	13.10	---	42.89	---	---	---	---	---	---
	3/15/04	55.99	8.57	---	47.42	<50	<0.5	<0.5	<0.5	<0.5	0.56*
	6/9/04	55.99	10.61	---	45.38	---	---	---	---	---	---
	9/13/04	55.99	12.86	---	43.13	---	---	---	---	---	---
	12/10/04	55.99	11.61	---	44.38	---	---	---	---	---	---
	3/24/05	55.99	9.32	---	46.67	<50	<0.5	<0.5	<0.5	<0.5	1.0*
DW-3	4/15/96	53.30	10.15	---	43.15	3,200	170	<0.5	<0.5	<2.0	---
	2/24/97	53.30	9.82	---	43.48	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	5/26/97	53.30	11.20	---	42.10	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/5/97	53.30	14.61	---	38.69	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	12/11/97	53.30	12.27	---	41.03	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/8/98	53.30	8.38	---	44.92	<50	<0.5	<0.5	<0.5	<2.0	<5.0
	6/22/98	53.30	9.42	---	43.88	---	---	---	---	---	---
	9/26/98	53.30	13.10	---	40.20	---	---	---	---	---	---
	1/14/99	53.30	11.86	---	41.44	---	---	---	---	---	---
	3/30/99	53.30	8.18	---	45.12	<50	<0.5	<0.5	<0.5	<0.5	3.3
	6/28/99	53.30	14.16	---	39.14	---	---	---	---	---	---
	10/5/99	53.30	13.73	---	39.57	---	---	---	---	---	---
	12/10/99	53.30	12.43	---	40.87	---	---	---	---	---	---
	3/24/00	53.30	9.14	---	44.16	100	<0.5	<0.5	<0.5	<1.0	390*
	6/7/00	53.30	11.16	---	42.14	---	---	---	---	---	---
	9/15/00	53.30	13.79	---	39.51	<50	0.8	4.1	1.7	6.6	12.7*
	11/29/00	53.30	12.82	---	40.48	140	<0.3	<0.3	<0.3	<0.6	358*
	3/21/01	53.30	10.45	---	42.85	243	2.0	<0.3	<0.3	<0.6	435*

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**ANALYTICAL RESULTS**  
 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, California  
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	* SPH (feet)	GWE (feet)	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE µg/L	
DW-3	6/5/01	53.30	11.60	---	41.70	180	63	<0.5	<0.5	<0.5	310*	
	9/6/01	53.30	13.79	---	39.51	<50	<0.5	<0.5	<0.5	<0.5	290*	
	12/11/01	53.30	12.12	---	41.18	<50	<0.5	<0.5	<0.5	<0.5	290*	
	3/12/02	53.30	9.72	---	43.58	<50	<0.5	<0.5	<0.5	<0.5	220*	
	6/11/02	53.30	11.57	---	41.73	<50	<0.5	<0.5	<0.5	<0.5	180*	
	9/9/02	56.45	13.39	---	43.06	<50	<0.5	<0.5	<0.5	<0.5	170*	
	12/20/02	56.45	12.31	---	44.14	<50	<0.5	<0.5	<0.5	<0.5	140*	
	3/12/03	56.45	9.88	---	46.57	<50	<0.5	<0.5	<0.5	0.74	94*	
	6/6/03	56.45	9.79	---	46.66	<50	<0.5	<0.5	<0.5	<0.5	38*	
	9/17/03	56.45	13.96	---	42.49	<50	<0.5	<0.5	<0.5	<0.5	27*	
	12/5/03	56.45	13.64	---	42.81	<50	<0.5	<0.5	<0.5	<0.5	16*	
	3/15/04	56.45	9.08	---	47.37	<50	<0.5	<0.5	<0.5	<0.5	4.9*	
	6/9/04	56.45	11.12	---	45.33	<50	<0.5	<0.5	<0.5	<0.5	5.9*	
	9/13/04	56.45	13.37	---	43.08	<50	<0.5	<0.5	<0.5	<0.5	4.5*	
	12/10/04	56.45	12.13	---	44.32	<50	<0.5	<0.5	<0.5	<0.5	4.5*	
	3/24/05	56.45	9.83	---	46.62	<50	<0.5	<0.5	<0.5	<0.5	1.7*	
<b>Recovery Wells</b>												
RW-1	11/29/00	54.93	13.66	---	41.27	387,000	6,030	62,500	6,450	57,100	123*	
	3/21/01	54.93	11.23	---	43.70	83,900	2,100	8,970	3,610	14,100	79*	
	6/5/01	54.93	12.47	---	42.46	75,000	1,700	6,000	2,800	12,000	410*	
Removed in August 2001, during remedial excavation activities												
RW-2	11/29/00	54.69	8.42	---	46.27	6,100	375	408	138	497	<100*	
	3/21/01	54.69	7.45	---	47.24	4,920	147	14	59	90	<40*	
	6/5/01	54.69	10.59	---	44.10	12,000	320	19	80	120	21*	
Removed in August 2001, during remedial excavation activities												
RW-3	11/29/00	54.52	8.23	---	46.29	4,710	129	21	<1.5	146	46.4*	
	3/21/01	54.52	7.27	---	47.25	4,340	168	37	99.1	261	16.5*	
	6/5/01	54.52	8.91	---	45.61	9,300	230	15	52	58	19*	
RW-3	Removed in August 2001, during remedial excavation activities											
RW-4B	11/29/00	51.74	3.09	---	48.65	<50	0.3	1.3	0.4	2.9	<2.0*	
	3/21/01	51.74	3.32	---	48.42	<50	0.6	<0.3	0.4	0.6	<2.0*	
	6/5/01	51.74	3.51	---	48.23	<50	<0.5	<0.5	<0.5	<0.5	<0.5*	
	9/6/01	51.74	4.21	---	47.53	<50	<0.5	<0.5	<0.5	<0.5	<0.5*	
	12/11/01	51.74	2.86	---	48.88	---	---	---	---	---	---	
	3/12/02	51.74	3.56	---	48.18	<50	<0.5	<0.5	<0.5	1.1	<0.5*	
	6/11/02	51.74	3.49	---	48.25	---	---	---	---	---	---	
	9/9/02	55.90	3.82	---	52.08	---	---	---	---	---	---	
	12/20/02	55.90	2.39	---	53.51	---	---	---	---	---	---	
	3/12/03	55.90	3.33	---	52.57	<50	<0.5	<0.5	<0.5	<0.5	<0.5*	
	6/6/03	55.90	3.35	---	52.55	---	---	---	---	---	---	
	9/17/03	55.90	4.75	---	51.15	---	---	---	---	---	---	
	12/5/03	55.90	4.11	---	51.79	---	---	---	---	---	---	
	3/15/04	55.90	3.23	---	52.67	<50	<0.5	<0.5	<0.5	<0.5	<0.5*	
	6/9/04	55.90	3.73	---	52.17	---	---	---	---	---	---	
	9/13/04	55.90	3.98	---	51.92	---	---	---	---	---	---	
	12/10/04	55.90	2.83	---	53.07	---	---	---	---	---	---	
	3/24/05	Covered over by structure										

**Table 1**  
**GROUNDWATER ELEVATIONS AND**  
**ANALYTICAL RESULTS**  
 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, California  
 Blue Rock Project # FNC-3

Well No.	Sampling Date	TOC (feet)	DTW (feet)	* SPH (feet)	GWE (feet)	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MTBE µg/L
RW-5	11/29/00	55.16	10.32	---	44.84	<2,500	229	46	36.1	15.3	254*
	3/21/01	55.16	6.94	---	48.22	1,330	54.3	10.4	25.7	116	26.9*
	6/5/01	55.16	11.27	---	43.89	4,000	150	3.6	52	86	21*
	9/6/01	55.16	15.59	---	39.57	3,400	240	15	43	33	28*
	12/11/01	55.16	10.33	---	44.83	8,100	280	26	120	320	39*
	3/12/02	55.16	8.30	---	46.86	2,100	180	1.9	32	5	19*
	6/11/02	55.16	13.08	---	42.08	1,900	440	2.3	48	7.9	34*
	9/9/02	58.30	15.58	---	42.72	3,100	410	7.8	39	26	20*
	12/20/02	58.30	5.88	---	52.42	4,900	200	8.5	73	350	26*
	3/12/03	58.30	10.71	---	47.59	1,200	120	0.61	16	<0.5	40*
	6/6/03	58.30	11.04	---	47.26	1,300	130	0.65	20	3.2	13*
	9/17/03	58.30	15.36	---	42.94	2,100	230	1.2	19	6.5	540*
	12/5/03	58.30	14.57	---	43.73	2,500	290	4.6	54	120	210*
	3/15/04	58.30	9.93	---	48.37	990	52	<0.5	13	<0.5	20*
	6/9/04	58.30	12.70	---	45.60	1,500	100	<0.5	9.5	1.4	37*
	9/13/04	58.30	15.08	---	43.22	910	55	0.73	5.7	2.1	31*
	12/10/04	58.30	5.98	---	52.32	4,400	110	2.3	43	300	11*
	3/24/05	58.30	6.36	---	51.94	3,900	120	2.1	41	190	13*
				MCL	---	1	150	300	1,750	13	
				Taste & odor threshold	5	---	42	29	17	5	

Notes:

TOC: Top of casing referenced to mean sea level in October 2002.

DTW: Depth to water measured from top of well casing in feet.

\*SPH: Separate phase hydrocarbon. Where listed in parentheses, it indicates the depth to SPH.

When SPH present, groundwater elevation calculated as: GWE = TOC - [DTW - 0.8(SPH)].

GWE: Ground water elevation as referenced to benchmark above mean sea level in feet.

TPHg: Total petroleum hydrocarbons as gasoline (EPA Method 5030/8015M)

Benzene, Toluene, Ethylbenzene, Xylenes: BTEX (EPA Method 8020, or 8260B)

MTBE: Methyl tertiary butyl ether (EPA Method 8020 or \* by EPA Method 8260B)

<: Not detected at or above method detection limit as shown.

µg/L: micrograms per liter (~parts per billion)

"---": Not analyzed, available, or applicable.

MCL: primary maximum contaminant level, an enforceable California drinking water standard.

**Table 2**  
**GROUNDWATER EXTRACTION SYSTEM ANALYTICAL RESULTS**  
 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, California  
 Blue Rock Project # FNC-3

Sample ID and Date	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
<b>Influent (EX-1)</b>						
8/5/02	3,800	120	37	110	110	16
10/10/02	7,000	1,200	320	260	480	170
11/12/02	13,000	970	760	500	1700	140
12/3/02	15,000	1,300	1,200	390	1,200	150
1/10/03	12,000	1,500	1,100	390	1,300	200
2/10/03	8,400	990	860	270	830	120
3/3/03	9,700	1,200	1,300	310	1,100	110
4/7/03	16,000	1,700	1,400	610	2,100	120
5/1/03	21,000	2,200	2,300	610	2,800	150
5/30/03	11,000	1,400	550	420	1,400	100
7/2/03	13,000	1,000	240	370	1,200	74
8/1/03	14,000	1,100	350	420	2,000	59
9/2/03	7,000	510	65	210	550	60
10/2/03	9,000	1,200	120	360	1,000	77
11/5/03	4,400	800	30	120	210	99
12/2/03	5,000	440	35	160	340	42
1/6/04	470	25	3	10	19	14
3/17/04	1,800	580	14	34	39	35
4/2/04	8,200	1,700	190	280	373	110
5/3/04	5,400	690	96	120	120	84
6/9/04	10,000	1,900	420	450	910	100
7/7/04	6,800	1,100	88	280	450	71
8/2/04	4,000	590	47	130	180	61
9/2/04	2,800	570	33	100	130	69
10/4/04	5,000	830	37	150	250	70
11/2/04	1,600	280	14	51	53	47
12/1/04	1,500	360	13	35	27	58
1/3/05	1,900	520	49	54	35	40
2/1/05	3,500	520	230	130	240	37
3/2/05	980	53	63	30	110	10

**Table 2**  
**GROUNDWATER EXTRACTION SYSTEM ANALYTICAL RESULTS**  
 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, California  
 Blue Rock Project # FNC-3

Sample ID and Date	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
<b>Influent</b>						
<b>(EX-2)</b>						
8/5/02	130,000	6,600	30,000	2,800	17,000	<1,000
4/7/03	91,000	720	9,200	2,400	17,000	<50
5/1/03	91,000	1,400	13,000	2,800	18,000	<50
5/30/03	110,000	1,400	12,000	2,600	17,000	<50
7/2/03	88,000	2,000	10,000	2,500	15,000	<500
9/17/03	120,000	2,000	11,000	2,400	18,000	<50
4/2/04	64,000	570	5,000	2,000	15,500	<50
5/3/04	73,000	870	6,500	2,300	17,100	<50
6/9/04	69,000	610	4,600	1,600	11,000	<20
7/7/04	70,000	3,300	6,600	1,400	8,800	<15
8/2/04	53,000	3,300	5,400	1,400	7,300	<25
9/2/04	75,000	5,100	8,400	2,300	11,000	<20
10/4/04	76,000	5,100	11,000	2,200	13,000	<25
11/2/04	81,000	4,600	11,000	2,400	14,000	<25
12/1/04	62,000	5,000	7,300	1,500	7,600	<15
1/3/05	70,000	6,000	16,000	2,100	14,000	<25
2/1/05	73,000	5,500	11,000	2,000	9,500	<25
3/2/05	66,000	4,600	11,000	1,700	8,800	<25

**Table 2**  
**GROUNDWATER EXTRACTION SYSTEM ANALYTICAL RESULTS**  
 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, California  
 Blue Rock Project # FNC-3

Sample ID and Date	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
<b>Effluent (Eff Main)</b>						
8/5/02	1,100	<0.5	<0.5	<0.5	<0.5	<5.0
10/10/02	<50	<0.5	<0.5	<0.5	<0.5	<5.0
11/12/02	<50	<0.5	<0.5	<0.5	<0.5	<5.0
12/3/02	180	<0.5	<0.5	<0.5	<0.5	<5.0
1/10/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
2/10/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
3/3/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
4/7/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
5/1/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
5/30/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
7/2/03	<50	<0.5	<0.5	<0.5	<0.5	<5.0
8/1/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
9/2/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/2/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/5/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/2/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
1/6/04	<50	<0.5	<0.5	<0.5	<0.5	<0.5
3/17/04	<50	<0.5	<0.5	<0.5	<0.5	<0.5
4/2/04	<50	<0.5	<0.5	<0.5	<1	<0.5
5/3/04	<50	<0.5	<0.5	<0.5	0.9	<0.5
6/9/04	<50	<0.5	<0.5	<0.5	<0.5	<0.5
7/7/04	<50	<0.5	<0.5	<0.5	<0.5	<5
8/2/04	<50	<0.5	<0.5	<0.5	<0.5	<0.5
9/2/04	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/4/04	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/2/04	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/1/04	<50	<0.5	<0.5	<0.5	<0.5	<0.5
1/10/05	<50	<0.5	<0.5	<0.5	<0.5	<0.5
2/1/05	<50	<0.5	<0.5	<0.5	<0.5	<0.5
3/2/05	<50	<0.5	<0.5	<0.5	<0.5	<0.5

**Notes:**

TPHg Total Petroleum Hydrocarbons as gasoline by EPA method 5030/8260B  
 BTEX Benzene, Toluene, Ethylbenzene and Total Xylenes by EPA Method 8260B  
 MTBE Methyl tertiary butyl ether by EPA Method 8260B  
 µg/L Micrograms per liter (~parts per billion)

**Table 3**  
**CUMULATIVE HYDROCARBON RECOVERY FROM GROUNDWATER**  
 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, California  
 Blue Rock Project # FNC-3

Date	A Cummulative Discharge (gal)	B Discharge for Interval (gal)	C Conversion factor (3.785 L/gal)	D Avg TPH (µg/L)	E Conversion factor (1 lbs / 453,600,000 µg)	F TPH recovered (lbs)	G TPH recovered (lbs, to sig figure)
9/9/02	24,330	24,330	3.875	3,800	0.000000002205	0.79	0.79
12/31/02	159,500	135,170	3.875	12,000	0.000000002205	13.86	14
1/10/03	235,450	75,950	3.875	12,000	0.000000002205	7.79	7.8
2/10/03	289,850	54,400	3.875	8,400	0.000000002205	3.90	3.9
3/3/03	311,280	21,430	3.875	9,700	0.000000002205	1.78	1.8
4/7/03	349,560	38,280	3.875	31,000	0.000000002205	10.14	10
5/1/03	400,120	50,560	3.875	35,000	0.000000002205	15.12	15
5/30/03	452,620	52,500	3.875	31,000	0.000000002205	13.91	14
7/2/03	500,260	47,640	3.875	28,000	0.000000002205	11.40	11
8/1/03	533,000	32,740	3.875	14,000	0.000000002205	3.92	3.9
9/2/03	563,490	30,490	3.875	7,000	0.000000002205	1.82	2
10/2/03	580,650	17,160	3.875	9,000	0.000000002205	1.32	1
11/5/03	598,360	17,710	3.875	4,400	0.000000002205	0.67	0.67
12/2/03	601,920	3,560	3.875	5,000	0.000000002205	0.15	0.2
1/6/04	605,895	3,975	3.875	470	0.000000002205	0.02	0.020
3/17/04	635,710	29,815	3.875	1,800	0.000000002205	0.46	0.46
4/2/04	682,900	47,190	3.875	19,000	0.000000002205	7.66	8.9
5/3/04	747,310	64,410	3.875	19,000	0.000000002205	10.46	12
6/9/04	858,890	111,580	3.875	22,000	0.000000002205	20.97	24
7/7/04	870,110	11,220	3.875	19,000	0.000000002205	1.82	1.8
8/2/04	887,640	17,530	3.875	14,000	0.000000002205	2.10	2.1
9/2/04	905,200	17,560	3.875	17,000	0.000000002205	2.55	2.6
10/4/04	910,310	5,110	3.875	19,000	0.000000002205	0.83	0.8
11/2/04	927,340	17,030	3.875	23,000	0.000000002205	3.35	3.3
12/1/04	976,980	49,640	3.875	18,000	0.000000002205	7.63	7.6
1/3/05	1,043,390	66,410	3.875	15,520	0.000000002205	8.81	8.8
2/1/05	1,066,540	23,150	3.875	17,400	0.000000002205	3.44	3.4
3/2/05	1,243,580	177,040	3.875	14,000	0.000000002205	21.18	21.0

Total Mass of Hydrocarbons Recovered (in lbs)	182.84
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Total Volume of Hydrocarbons Recovered (in gals) assuming gasoline density of 6.08 lbs/gal	30.1
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#### **NOTES REGARDING TABLE**

Initial startup of system - August 5, 2002.

- A: Cumulative volume of groundwater recovered and discharged (gal), combined flow from EX-1 and EX-2
- B: Volume of groundwater recovered and discharged for period (gal) (combined flow from EX-1 and EX-2)
- C: Conversion factor of 3.875 liter / 1 gal
- D: Weighted Avg TPH concentration ( $\mu\text{g}/\text{L}$ ) of combined groundwater flow from EX-1 and EX-2  
Previous measurements show that ratio of water production for EX-1 : EX-2 is ~ 2:1.  
TPH concentrations from EX-2 are historically significantly higher than EX-1.  
For the sake of being conservative so as not to over estimate TPH recovery, the Avg TPH concentration is calculated as a weighted average of 4 : 1 of EX-1 : EX-2 TPH concentrations.
- E: Conversion factor of 1 lbs / 453,600,00 micrograms
- F: TPH recovered for period (lbs) = B (gal) \* C (L/gal) \* D ( $\mu\text{g}/\text{L}$ ) \* E (lbs/ $\mu\text{g}$ )
- G: TPH recovered for period (lbs) rounded to significant figures

**Table 4**  
**WELL CONSTRUCTION DETAILS**  
 Fortuna Beacon Petro Mart  
 309 South Fortuna Boulevard  
 Fortuna, California  
 Blue Rock Project No. FNC-3

Well Identification	Date Installed	Installed by	Casing Diameter (inches)	Total Depth (feet)	Blank Interval (feet)	Screened Interval (feet)	Slot Size (inches)	Filter Pack (feet)	Bentonite Seal (feet)	Cement (feet)	First Encountered Groundwater (feet bgs)
MW-1	2/27/90	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	6
MW-2	2/27/90	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	6
MW-3	2/27/90	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	12
MW-4	6/30/92	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	16.5
MW-5	6/30/92	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	13.2
MW-6	7/1/92	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	15.5
MW-7	10/22/92	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	14
MW-8	10/21/92	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	13
MW-9*	10/21/92	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	18
MW-10	10/16/92	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	17
MW-11	10/19/02	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	18
MW-12	12/3/93	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	10
MW-13	12/6/93	Laco	4	20	0-5	5-20	0.02	4-20	3-4	0-3	5
MW-14	4/2/96	Clearwater	2	20	0-10	10-20	0.02	9-20	7-9	0-7	15
MW-15	7/21/98	Clearwater	2	20	0-10	10-20	0.02	9-20	7-9	0-7	15
MW-16	7/21/98	Clearwater	2	20	0-10	10-20	0.02	9-20	7-9	0-7	4.5
DW-1	4/3/96	Clearwater	2	40	0-30	30-40	0.02	27-40	25-27	0-27	18
DW-2	4/4/96	Clearwater	2	40.5	0-30	30-40.5	0.02	27-40.5	25-27	0-27	20
DW-3	4/4/96	Clearwater	2	40.5	0-30	30-40.5	0.02	27-40.5	25-27	0-27	15
RW-1*	10/23/00	Clearwater	4	20	0-5	5-20	0.01	4-20	3-4	0-3	10
RW-2*	10/23/00	Clearwater	4	20	0-5	5-20	0.01	4-20	3-4	0-3	5.5
RW-3*	10/23/00	Clearwater	4	20	0-5	5-20	0.01	4-20	3-4	0-3	5.5
RW-4B	10/23/00	Clearwater	4	20	0-5	5-20	0.01	4-20	3-4	0-3	3
RW-5	10/23/00	Clearwater	4	20	0-5	5-20	0.01	4-20	3-4	0-3	8

\* : Destroyed by overdrilling and grouted with neat cement or removed during remedial soil excavation

**First-Order Decay Rates for Dissolved-Phase Hydrocarbons 6/02 to 3/05**

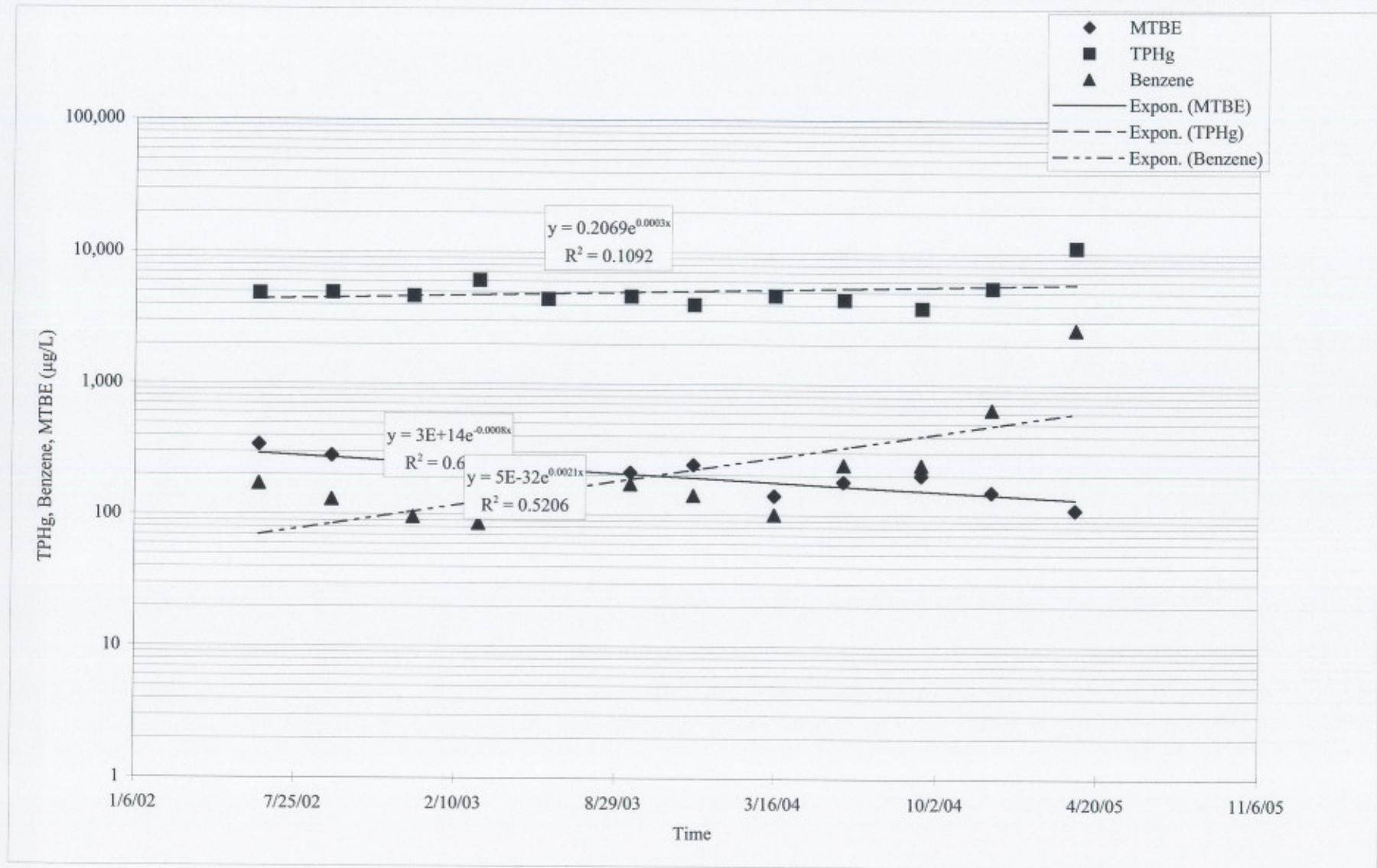
Fortuna Beacon Petro Mart, 390 South Fortuna Boulevard, Fortuna, CA  
Blue Rock Project No. FNC-3

Well	TPHg (%/day)	Benzene (%/day)	MTBE (%/day)
MW-1	0.03*	0.21	-0.08
MW-4	-0.02*	-0.12	-0.22
MW-5	-0.26	N/A	-0.17
MW-6	-0.06	-0.13	NA
DW-1	-0.09*	-0.21*	-0.35*
DW-3	N/A	N/A	-0.49
RW-5	NA	-0.15*	-0.06*

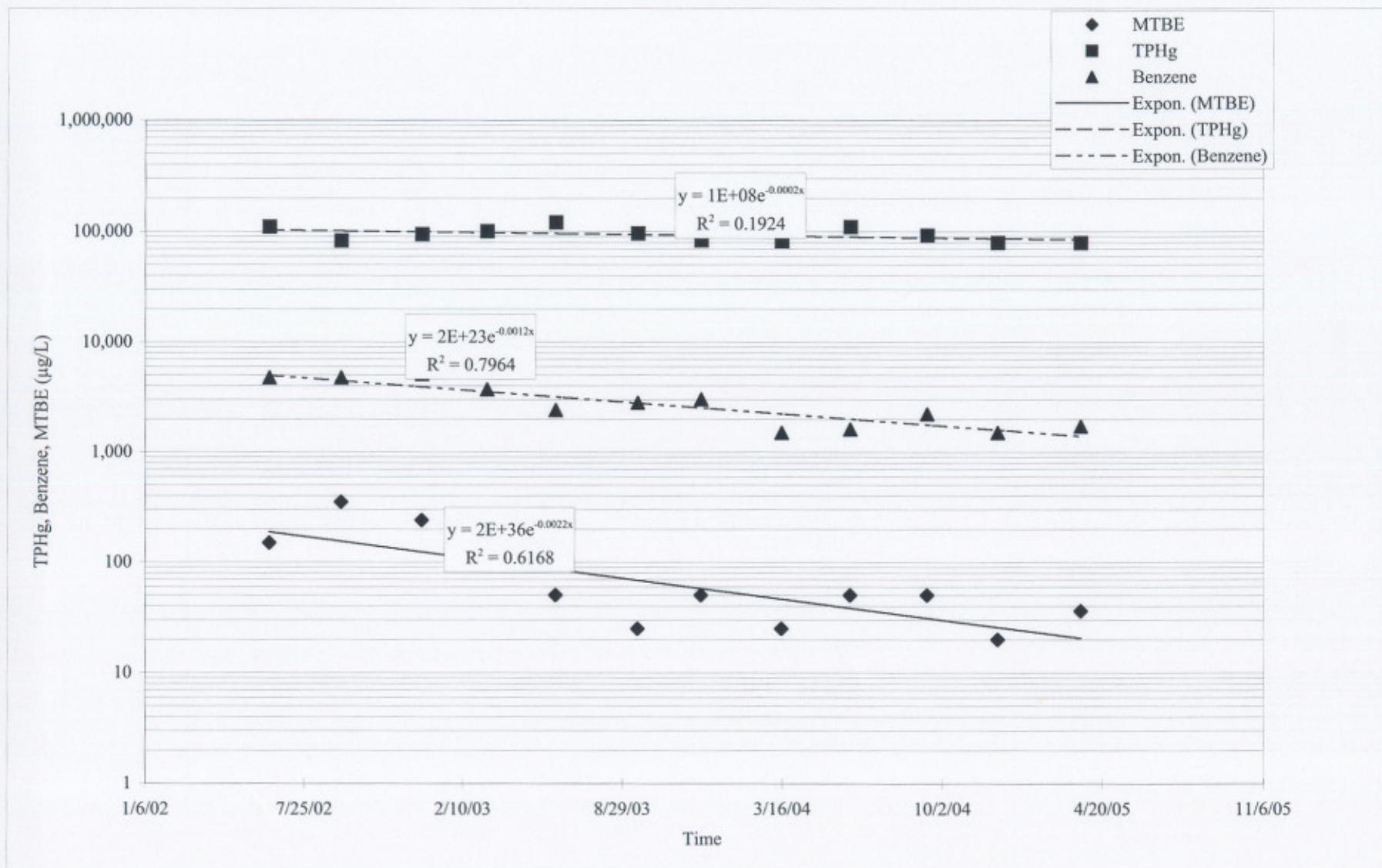
See attached decay rate graph

\* not statistically significant

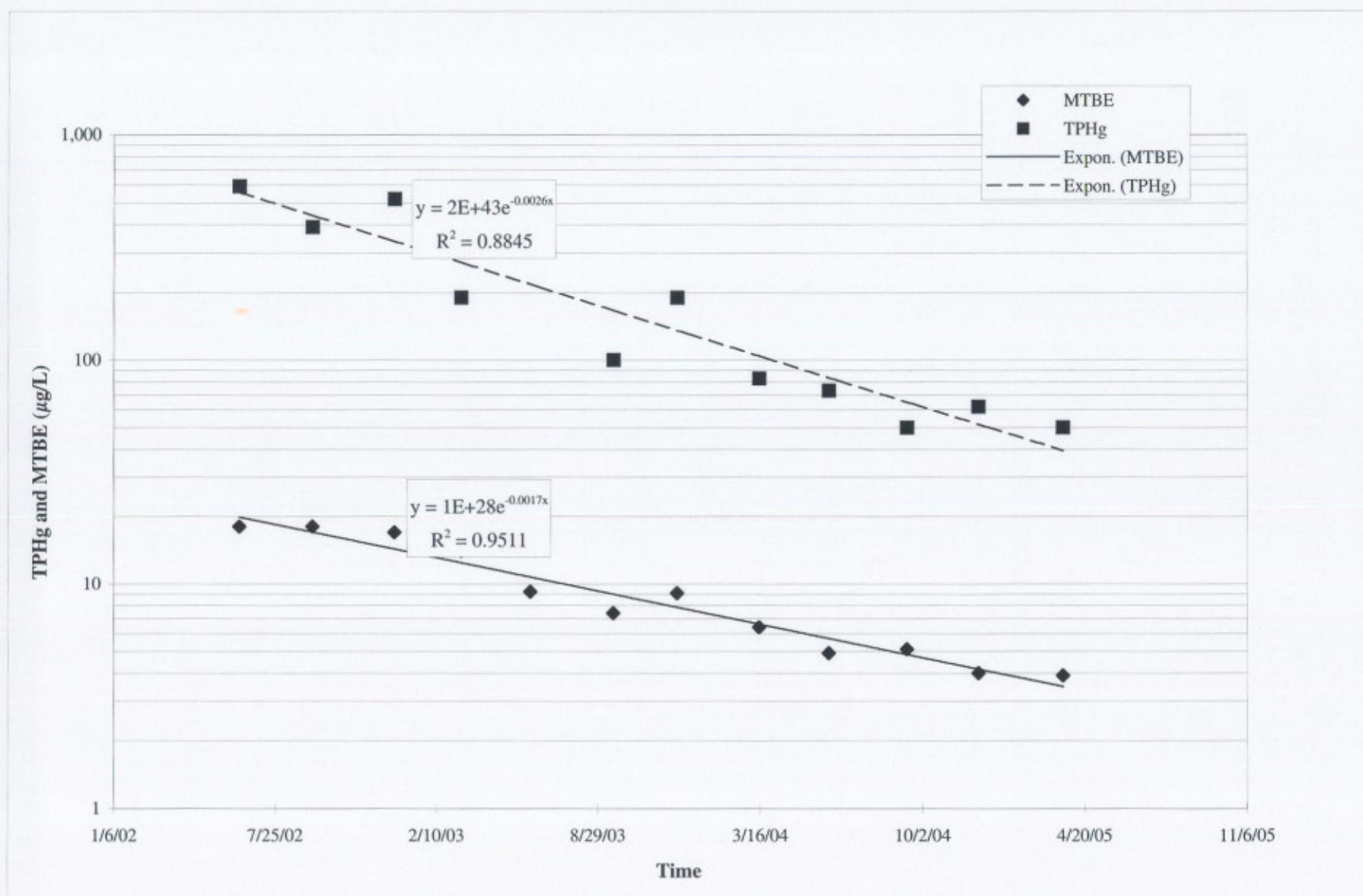
**Chart 1**  
**Dissolved-Phase Hydrocarbon Concentrations vs. Time for MW-1**  
Fortuna Beacon Petro Mart  
390 South Fortuna Boulevard  
Fortuna, CA



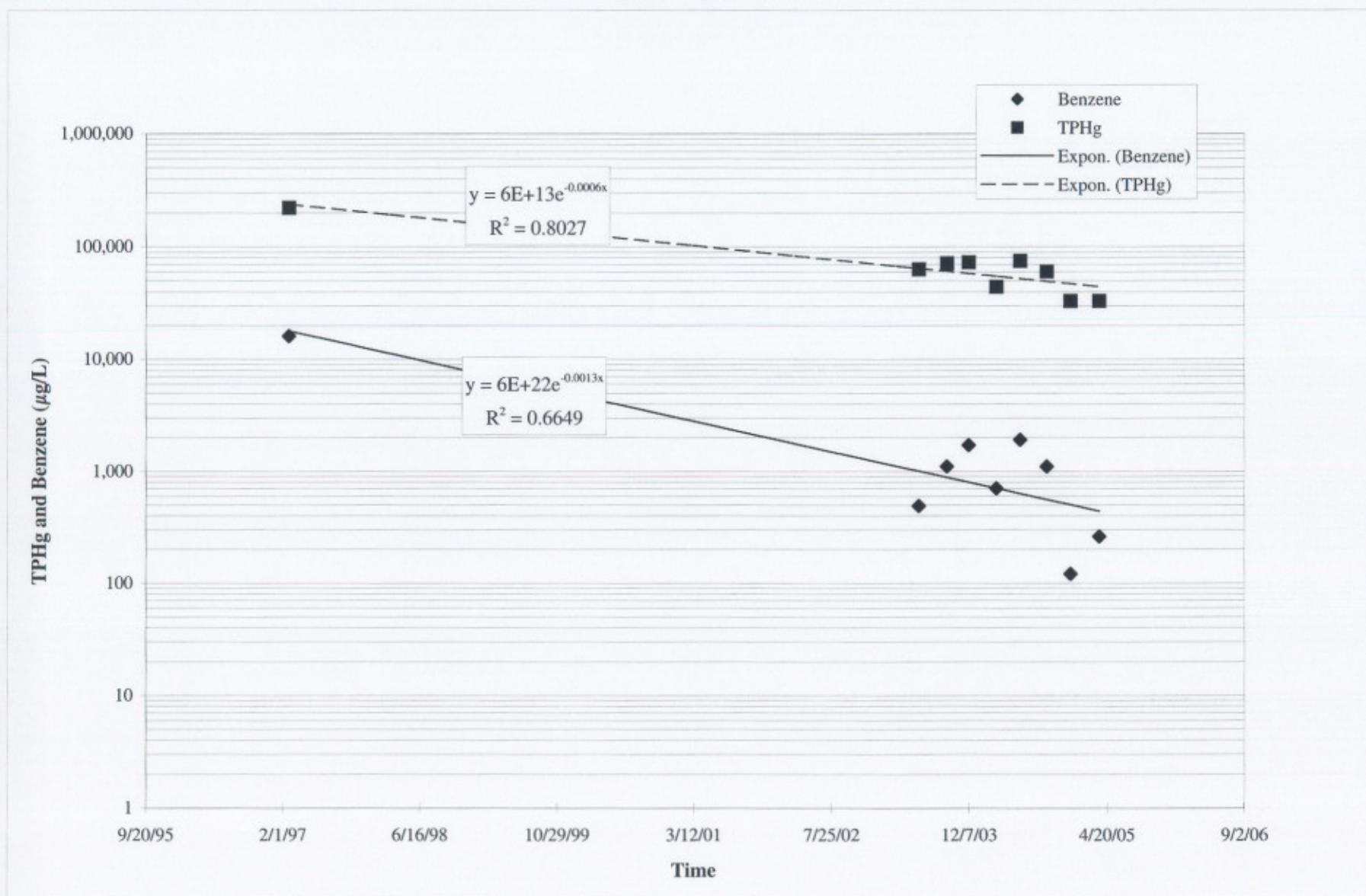
**Chart 2**  
**Dissolved-Phase Hydrocarbon Concentrations vs. Time for MW-4**  
 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, CA



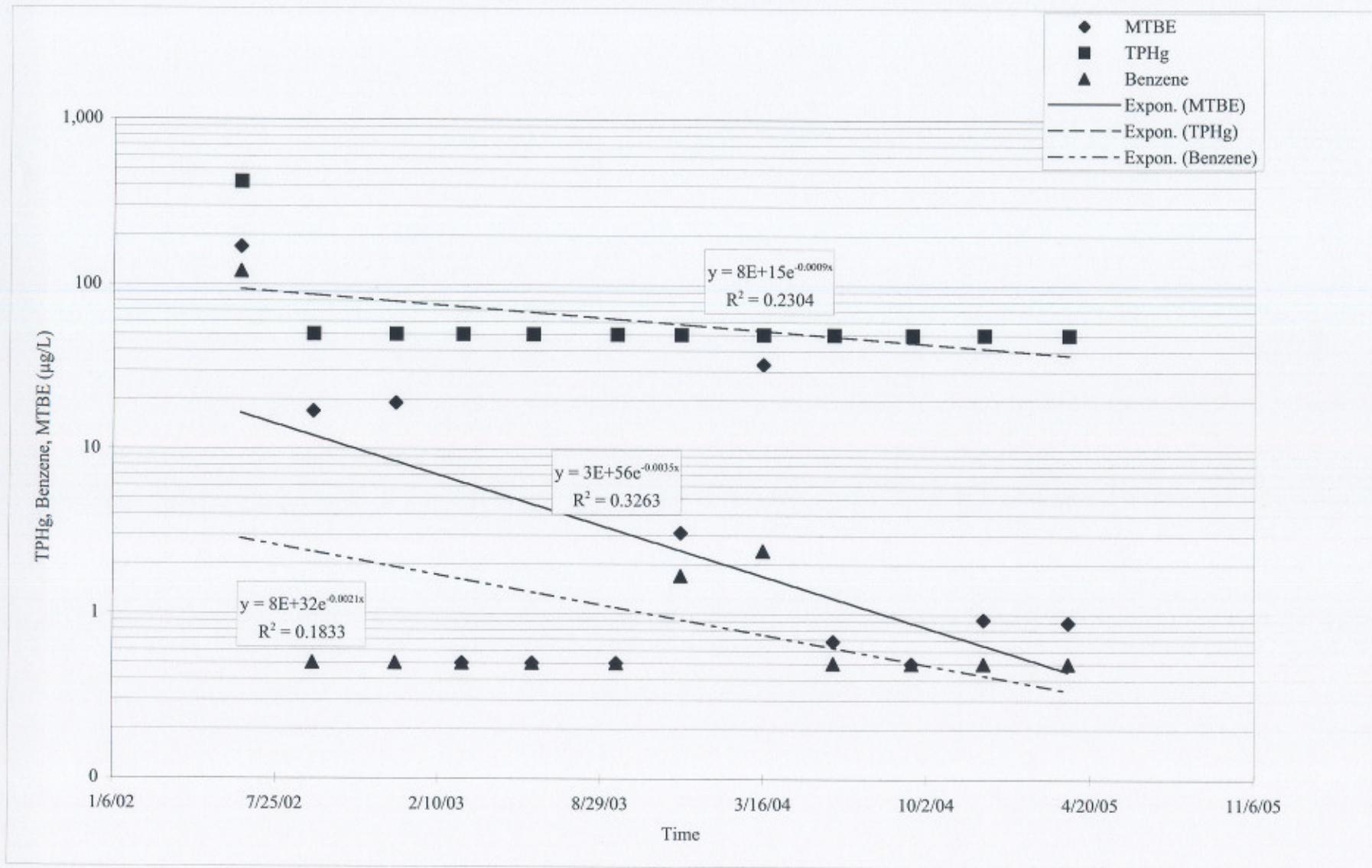
**Chart 3**  
**Dissolved-Phase Hydrocarbon Concentrations vs. Time for MW-5**  
Fortuna Beacon Petro Mart  
390 South Fortuna Boulevard  
Fortuna, California



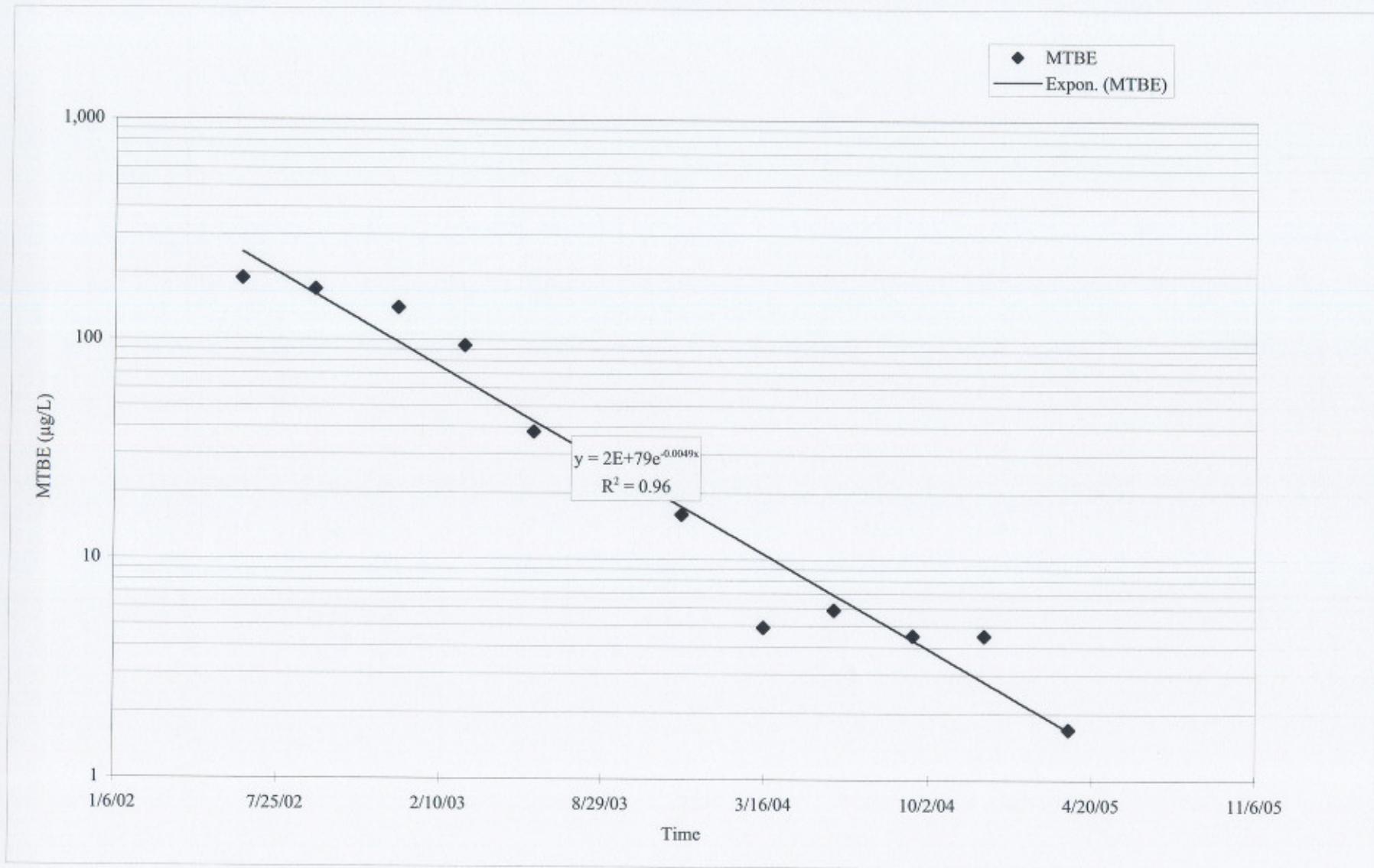
**Chart 4**  
**Dissolved-Phase Hydrocarbon Concentrations vs. Time for MW-6**  
Fortuna Beacon Petro Mart  
390 South Fortuna Boulevard  
Fortuna, California



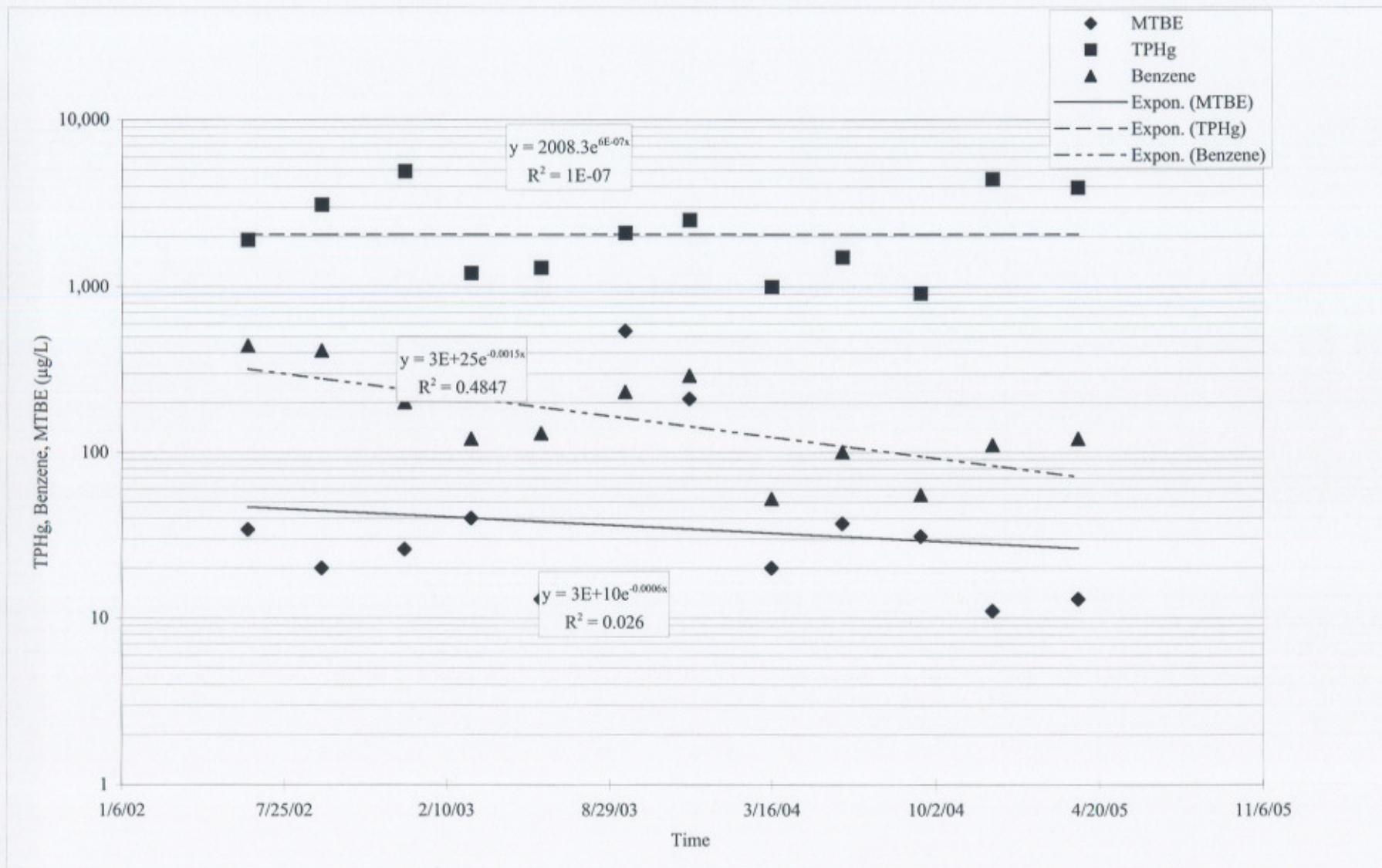
**Chart 5**  
**Dissolved-Phase Hydrocarbon Concentrations vs. Time for DW-1**  
 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, CA

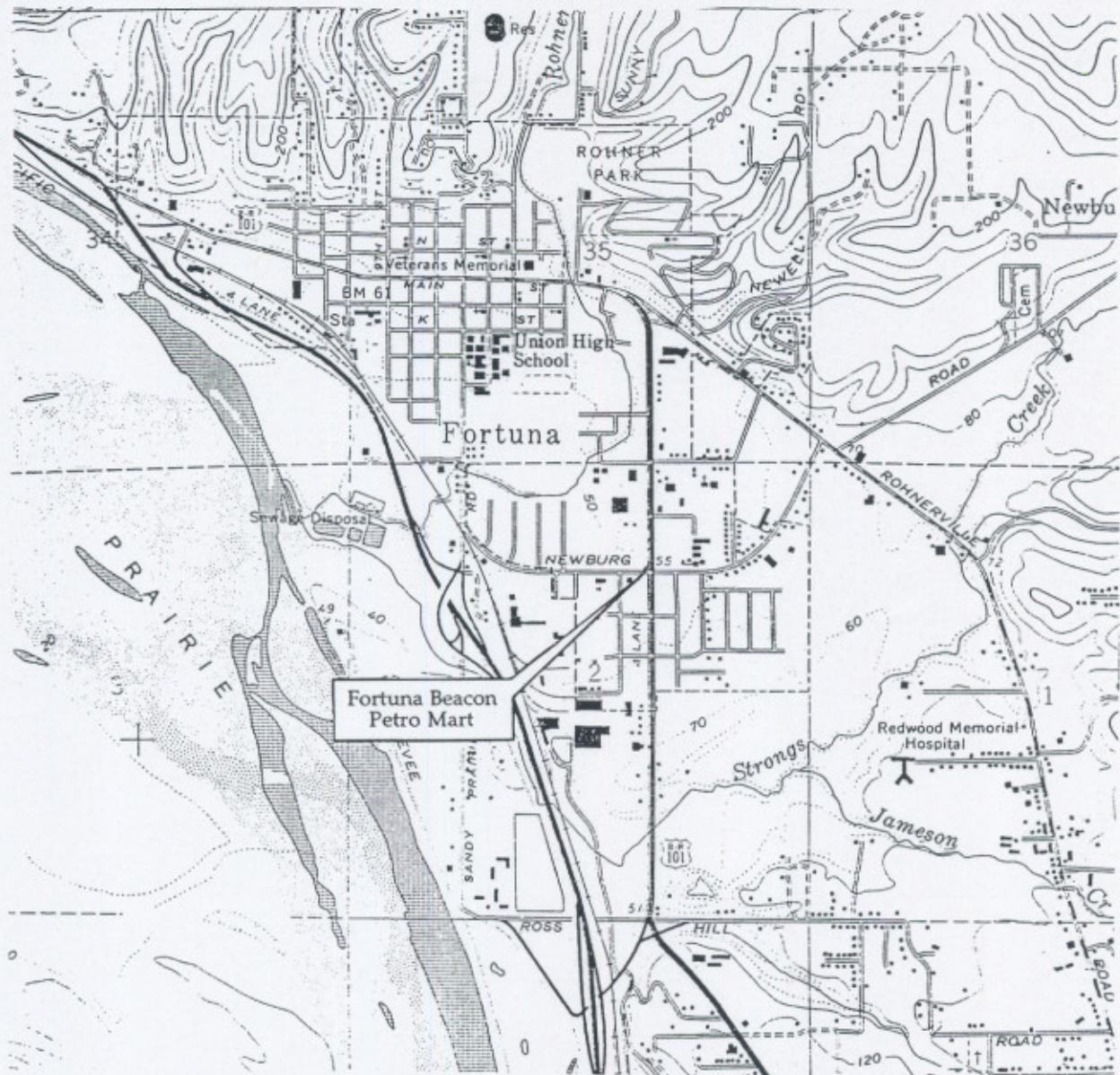


**Chart 6**  
**Dissolved-Phase Hydrocarbon Concentrations vs. Time for DW-3**  
Fortuna Beacon Petro Mart  
390 South Fortuna Boulevard  
Fortuna, CA

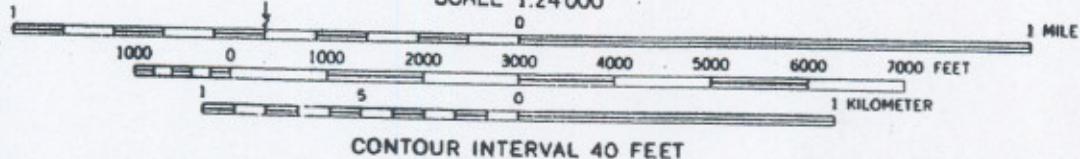


**Chart 7**  
**Dissolved-Phase Hydrocarbon Concentrations vs. Time for RW-5**  
 Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, CA





SCALE 1:24 000



MAP SOURCE: USGS Fortuna Quadrangle



## Site Location Map

Fortuna Beacon Petro Mart  
390 South Fortuna Boulevard  
Fortuna, California

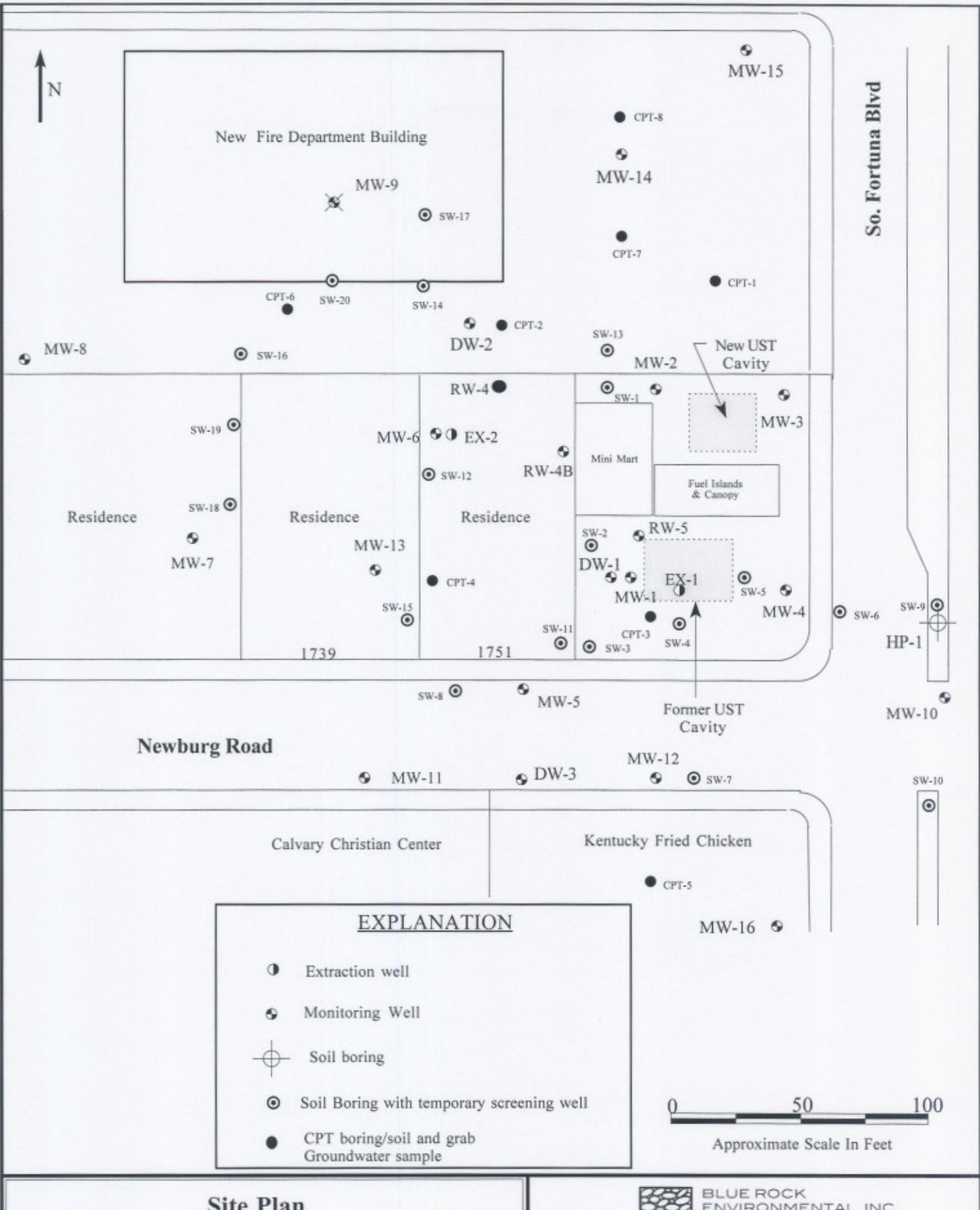


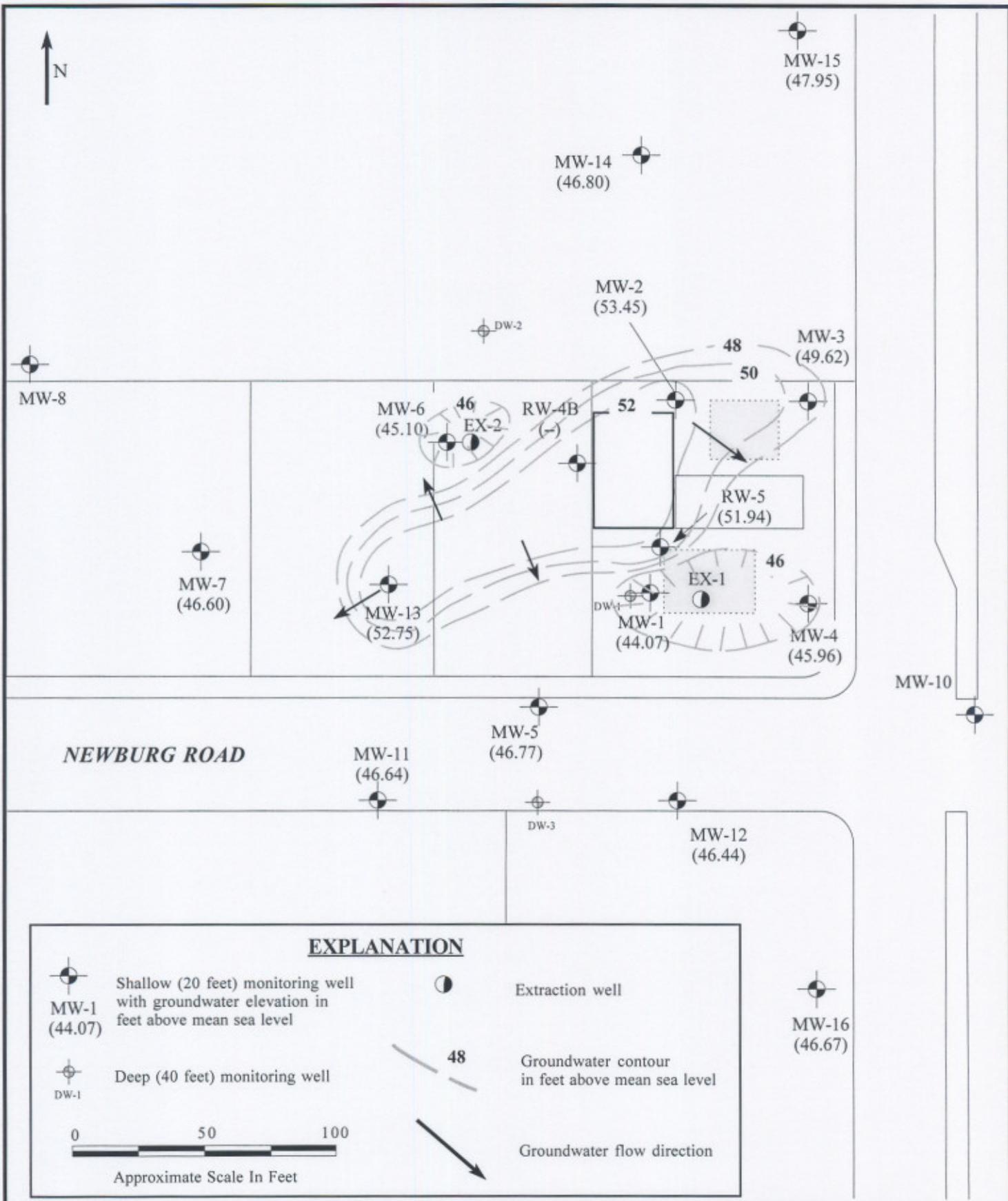
BLUE ROCK  
ENVIRONMENTAL, INC.

Project No.  
FNC-3

Date  
7/04

Figure  
1





**Groundwater Elevations and Gradient Map  
Shallow Wells 3/24/05**

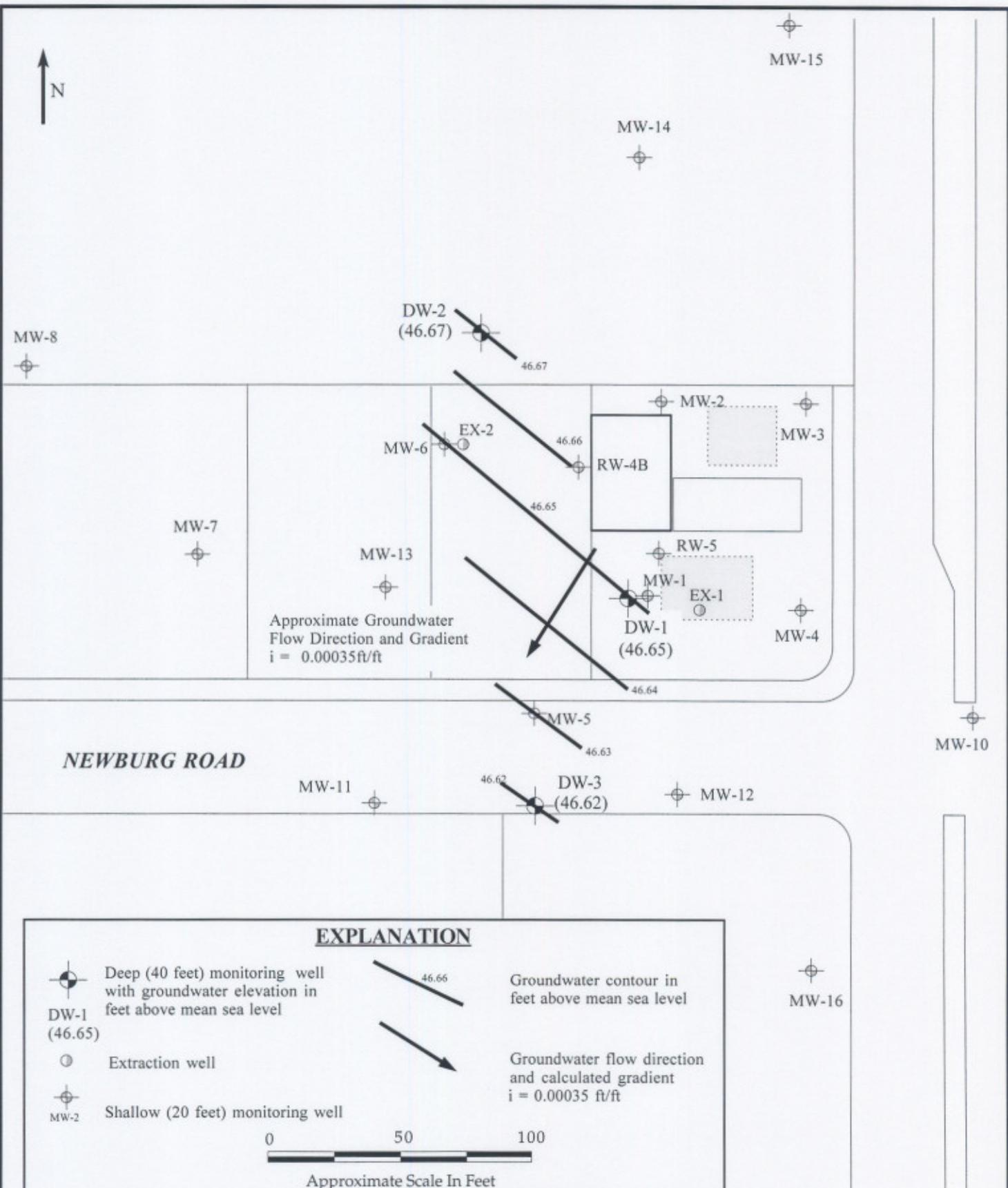
Fortuna Beacon Petro Mart  
390 South Fortuna Boulevard  
Fortuna, California

BLUE ROCK  
ENVIRONMENTAL, INC.

Project No.  
FNC-3

Figure Date  
4/05

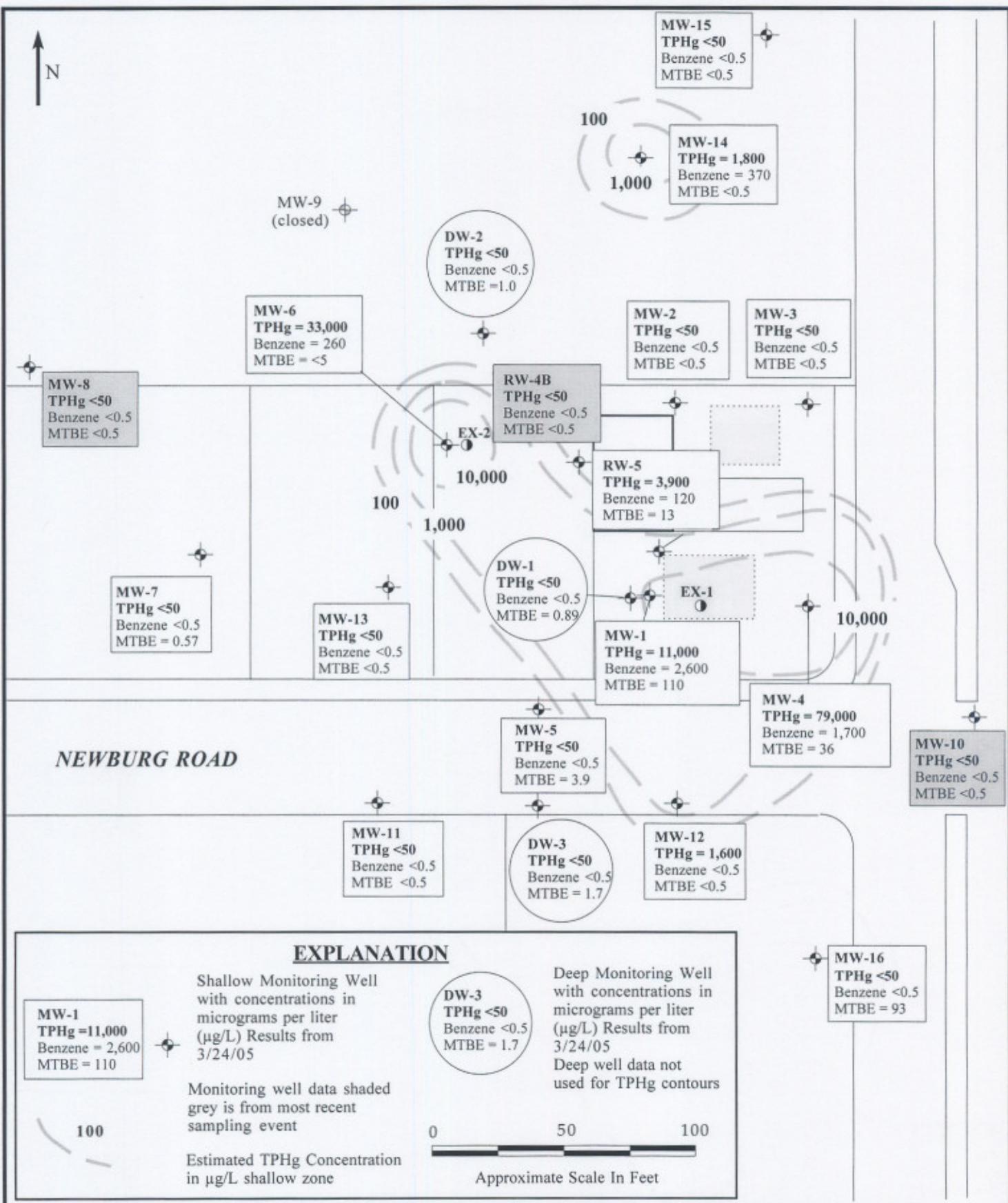
Figure  
3a



**Groundwater Elevations and Gradient Map**  
**Deep Wells 3/24/05**

Fortuna Beacon Petro Mart  
 390 South Fortuna Boulevard  
 Fortuna, California

BLUE ROCK ENVIRONMENTAL, INC.



**Dissolved-Phase TPHg Distribution Map**  
**3/24/05**

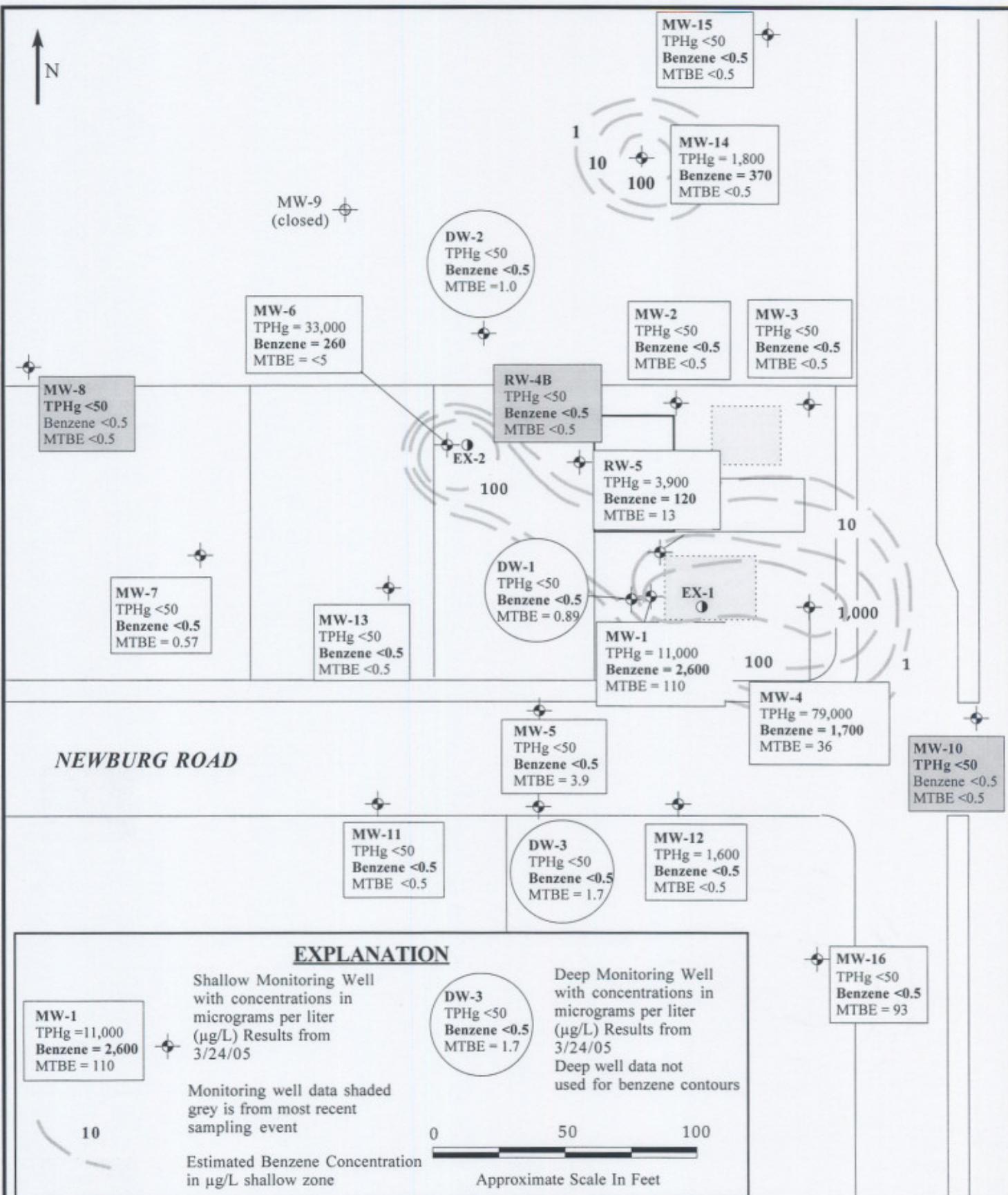
Fortuna Beacon Petro Mart  
390 South Fortuna Boulevard  
Fortuna, California

BLUE ROCK  
ENVIRONMENTAL, INC.

Project No.  
FNC-3

Figure Date  
4/05

Figure  
4a



**Dissolved-Phase Benzene Distribution Map**  
**3/24/05**

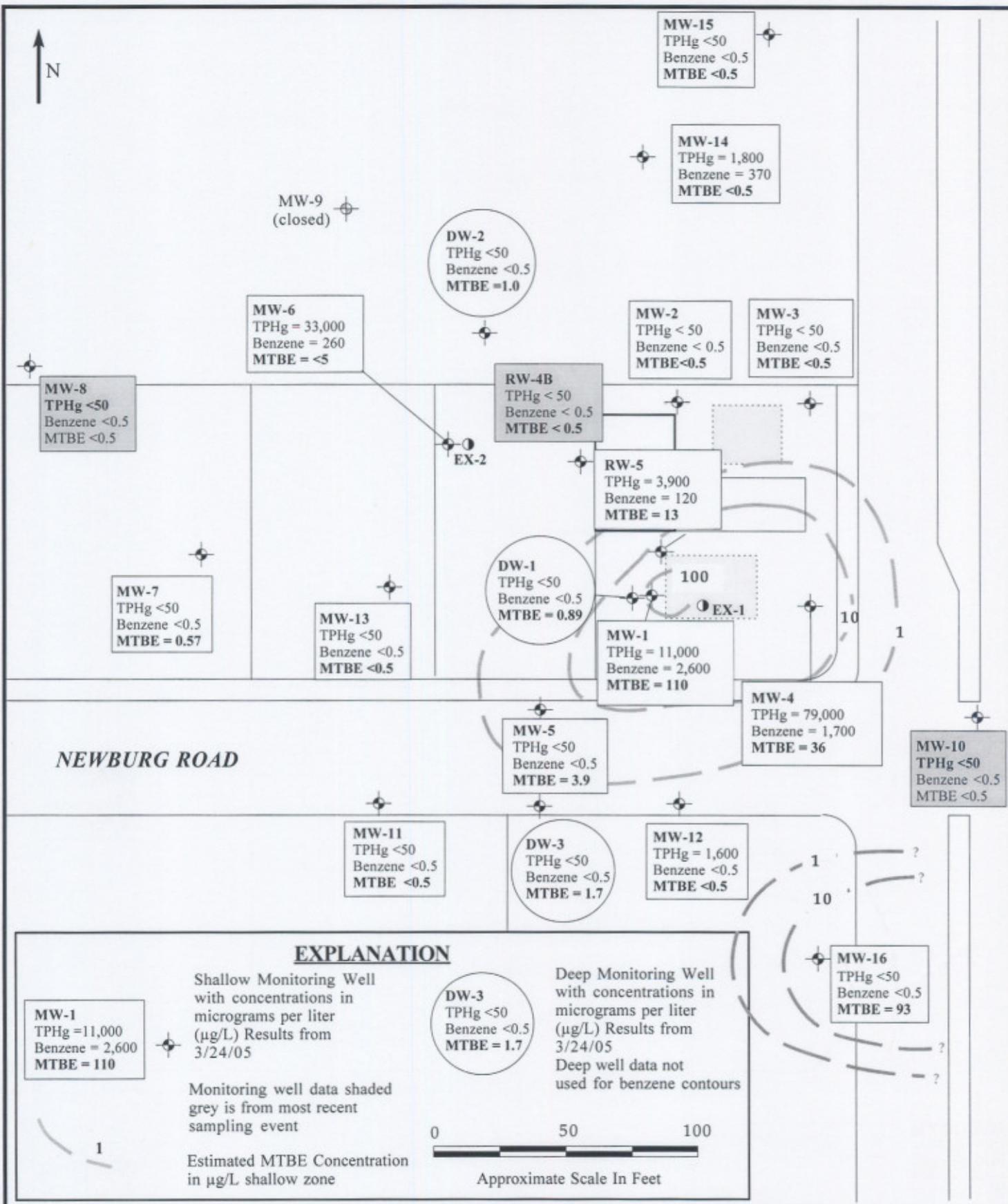
Fortuna Beacon Petro Mart  
390 South Fortuna Boulevard  
Fortuna, California

BLUE ROCK ENVIRONMENTAL, INC.

Project No.  
FNC-3

Figure Date  
4/05

Figure  
4b



### Dissolved-Phase MTBE Distribution Map

3/25/05

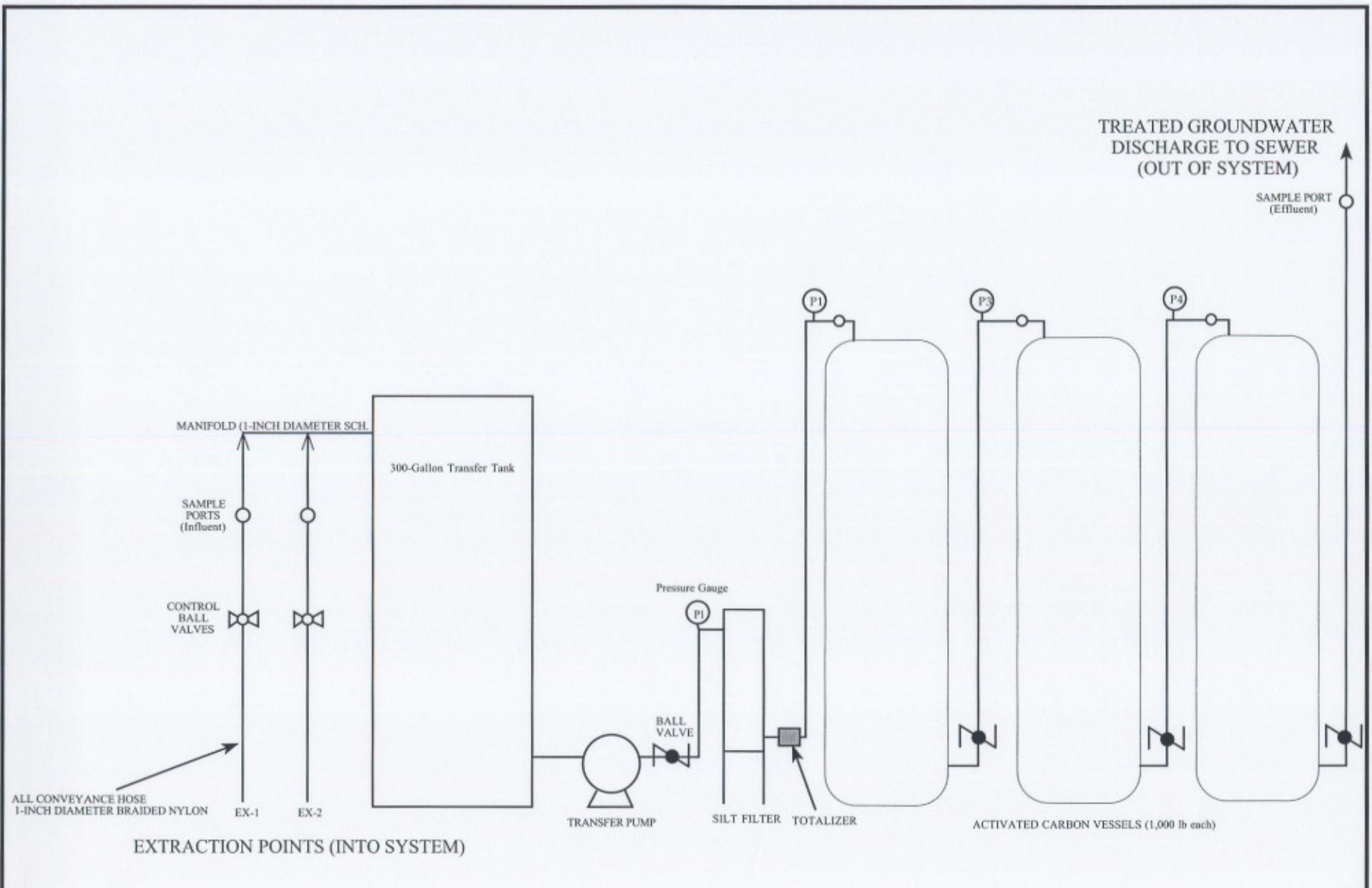
Fortuna Beacon Petro Mart  
390 South Fortuna Boulevard  
Fortuna, California

BLUE ROCK  
ENVIRONMENTAL, INC.

Project No.  
FNC-3

Figure Date  
4/05

Figure  
4c



## Groundwater Extraction System Schematic

Fortuna Beacon Petro Mart  
390 South Fortuna Boulevard  
Fortuna, California



BLUE ROCK  
ENVIRONMENTAL, INC.

Project No.  
FNC-3

Figure Date  
4/05

Figure  
5

# GAGING DATA/PURGE CALCULATIONS

Job No.: FNC-3 Location: 370 South Fortune Blv Date: 3-24-05 Tech(s):

WELL NO.	DIA. (in.)	DTB (ft.)	DTW (ft.)	ST (ft.)	CV (gal.)	PV (gal.)	SPH (ft.)	NOTES elevations.
MW-1	4"	19.23	13.70	5.53	3.59	10.74	0	44.07
MW-2	1	19.76	5.34	14.42	9.37	24.11	0	53.45
MW-3		19.62	9.00	10.62	6.90	20.70	0	49.62
MW-4		19.82	12.22	7.6	4.94	14.82	0	45.96
MW-5		19.59	9.78	9.81	6.37	19.12	0	46.77
MW-6		20.00	10.10	9.90	6.43	19.30	0	45.10
MW-7		19.88	8.62	11.26	7.31	21.9	0	46.60
MW-11		19.79	9.60	10.19	6.62	19.87	0	46.64
MW-12		20.00	10.46	9.54	6.20	14.60	0	46.44
MW-13	↓	19.47	3.06	16.41	10.66	31.99	0	52.75
MW-14	2"	21.18	9.72	11.46	1.83	5.50	0	46.80
MW-15	1	18.61	9.73	9.14	1.66	4.40	0	47.95
MW-16		19.52	10.89	8.63	1.34	4.14	0	46.67
DW-1		39.77	11.16	28.61	4.57	13.73	0	46.65
DW-2		39.30	9.32	29.94	4.79	14.39	0	46.67
DW-3	↓	37.50	9.83	27.67	4.42	13.24	0	46.62
RW-4B	4"	20.00	X				0	no sample
RW-5	4"	20.00	6.36	13.64	8.46	26.5	0	51.94

## Explanation:

DIA. = Well Diameter

DTB = Depth to Bottom

DTW = Depth to Water

ST = Saturated Thickness (DTB-DTW)

CV = Casing Volume (ST x cf)

PV = Purge Volume (standard 3 x CV,  
well development 10 x CV)

SPH = Thickness of Separate Phase Hydrocarbons

## Conversion Factors (cf):

2 in. dia. well cf = 0.16 gal./ft.

4 in. dia. well cf = 0.65 gal./ft.

6 in. dia. well cf = 1.44 gal./ft.



BLUE ROCK  
ENVIRONMENTAL, INC.

## PURGING DATA

SHEET 1 OF

Job No.: FAC-3Location: 390 South Fortune Blvd Date: 3-24-05 Tech: SR, AL

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
<u>RW-3</u>			---	---	---	Sample for:  TPHg TPHd 8260 BTEX MTBE Metals
Calc. purge volume	<u>1234</u>	<u>3.5</u>	<u>304</u>	<u>61.0</u>	<u>6.72</u>	Purging Method:  PVC bailer / Pump
	<u>1237</u>	<u>7</u>	<u>308</u>	<u>61.0</u>	<u>6.78</u>	Sampling Method:  Dedicated / Disposable bailer
<u>13.28</u>	<u>1239</u>	<u>10.5</u>	<u>315</u>	<u>60.9</u>	<u>6.79</u>	Sample at: <u>1250</u>
	<u>1241</u>	<u>13+</u>	<u>314</u>	<u>60.1</u>	<u>6.77</u>	
COMMENTS: color, turbidity, recharge, sheen						
<u>brown, low, good</u>						
WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
<u>RW-5</u>			---	---	---	Sample for:  TPHg TPHd 8260 BTEX MTBE Metals
Calc. purge volume	<u>1355</u>	<u>7</u>	<u>258</u>	<u>61.2</u>	<u>6.26</u>	Purging Method:  PVC bailer / Pump
	<u>1357</u>	<u>14</u>	<u>259</u>	<u>61.6</u>	<u>6.17</u>	Sampling Method:  Dedicated / Disposable bailer
<u>26.5</u>	<u>1359</u>	<u>21</u>	<u>257</u>	<u>61.7</u>	<u>6.23</u>	Sample at: <u>1405</u>
	<u>1401</u>	<u>26+</u>	<u>257</u>	<u>61.9</u>	<u>6.20</u>	
COMMENTS: color, turbidity, recharge, sheen						
<u>gray, low, poor</u>						
WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
			---	---	---	Sample for:  TPHg TPHd 8260 BTEX MTBE Metals
Calc. purge volume						Purging Method:  PVC bailer / Pump
						Sampling Method:  Dedicated / Disposable bailer
COMMENTS: color, turbidity, recharge, sheen						Sample at:

## PURGING DATA

SHEET 2 OF

Job No.: FNC-3

Location: 390 S. Fulton, Blvd.

Date:

3-24-05 Tech: SRAL

WELL  
No.

TIME

VOLUME  
(gal.)COND.  
(mS/cm)TEMP.  
(deg. F.)

pH

1315

MW-4P

(Calc. purge

volume

141.52

1303

4

435

58.8

6.45

1306

8

460

59.2

6.43

1308

13

457

59.4

6.49

Dray @ 13 gallons

Sample for:

TPHg

TPHd

8260

BTEX

MTBE

Metals

Purging Method:

PVC bailer / Pump

COMMENTS: color, turbidity, recharge, sheen

dark brown, moderate, poor

Sampling Method:

Dedicated / Disposable bailer

Sample at:

WELL  
No.

TIME

VOLUME  
(gal.)COND.  
(mS/cm)TEMP.  
(deg. F.)

pH

1440

MW-4

(Calc. purge

volume

19.12

1426

5

487

61.9

6.26

1428

10

433

61.8

6.23

1430

15

485

61.6

6.26

1433

20

483

61.5

6.25

Sample for:

TPHg

TPHd

8260

BTEX

MTBE

Metals

Purging Method:

PVC bailer / Pump

COMMENTS: color, turbidity, recharge, sheen

gray, low, poor, odor

Sampling Method:

Dedicated / Disposable bailer

Sample at:

WELL  
No.

TIME

VOLUME  
(gal.)COND.  
(mS/cm)TEMP.  
(deg. F.)

pH

1600

MW-6

(Calc. purge

volume

11.30

1546

5

576

58.9

6.85

1550

10

565

58.5

6.85

1553

15

240

59.1

6.07

1555

20

341

59.2

6.85

Sample for:

TPHg

TPHd

8260

BTEX

MTBE

Metals

Purging Method:

PVC bailer / Pump

COMMENTS: color, turbidity, recharge, sheen

Clear / low / good / sheen

mod  
low

Sampling Method:

Dedicated / Disposable bailer

Sample at:

# PURGING DATA

SHEET 3 OF

Job No.: FNC-3 Location: 390 S. Fortune Blvd Date: 3-24-05 Tech: SR, AL

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-16			---	---	---	1210
Calc. purge volume	1556	1	205	60.7	6.07	Sample for: TPHg TPHd 8260 BTEX MTBE Metals
4.14	1157	2	209	61.3	6.03	Purging Method: PVC bailer / Pump
	1159	3	206	61.2	6.05	Sampling Method: Dedicated / Disposable bailer
	1201	4+	206	61.2	6.09	Sample at: 1350
	COMMENTS: color, turbidity, recharge, sheen					brown, low, good
DW-1			---	---	---	Sample for: TPHg TPHd 8260 BTEX MTBE Metals
Calc. purge volume	1335	3.5	308	60.0	7.11	Purging Method: PVC bailer / Pump
13.73	1337	7.0	299	62.0	6.92	Sampling Method: Dedicated / Disposable bailer
	1340	10.0	301	60.0	6.86	Sample at: 1075
	1344	13.73	302	59.5	6.85	gray, moderate, good
	COMMENTS: color, turbidity, recharge, sheen					
DW-2			---	---	---	Sample for: TPHg TPHd 8260 BTEX MTBE Metals
Calc. purge volume	1027	2.5	311	61.0	6.86	Purging Method: PVC bailer / Pump
14.39	1029	5	326	62.9	7.05	Sampling Method: Dedicated / Disposable bailer
	1032	7.5	339	63.1	6.93	Sample at:
	1035	14	344	62.9	6.90	brown, high, good
	COMMENTS: color, turbidity, recharge, sheen					

## PURGING DATA

SHEET 4 OF

Job No.: FNC-3 Location: 340 South Fortune Blvd Date: 3-24-05 Tech: SR, AL

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-1			---	---	---	1420
Calc. purge volume	1409 <u>10.78</u>	2.5 <u>dry @ 76gal</u>	313 <u>322</u>	61.8 61.3	6.19 6.25	Sample for: TPHg TPHd 8260 BTEX MTBE Metals
						Purging Method: PVC bailer / Pump
						Sampling Method: Dedicated / Disposable bailer
						Sample at:
WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	1100
MW-2			---	---	---	Sample for:
Calc. purge volume	1045 <u>28.11</u>	8 <u>10</u>	114 109	60.3 59.1	5.94 5.75	TPHg TPHd 8260 BTEX MTBE Metals
						Purging Method: PVC bailer / Pump
						Sampling Method: Dedicated / Disposable bailer
						Sample at:
WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	1115
MW-3			---	---	---	Sample for:
Calc. purge volume	1103 <u>20.70</u>	2 <u>Dry @</u>	219 10 gallons	60.8 60.0	6.21 6.24	TPHg TPHd 8260 BTEX MTBE Metals
						Purging Method: PVC bailer / Pump
						Sampling Method: Dedicated / Disposable bailer
						Sample at:

# PURGING DATA

SHEET 5 OF

Job No.: FNC-3 Location: 390 S Fortune Blv Date: 3-24-05 Tech: SR, AL

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-7			---	---	---	1135
Calc. purge volume	1121	5	131	62.7	6.32	TPHg TPHd 8260
	1123	10	126	60.8	6.25	BTEX MTBE Metals
21.9	1125	15	130	59.7	6.21	Purging Method:
	1126	21.5	159	59.4	6.22	PVC bailer / Pump

COMMENTS: color, turbidity, recharge, sheen

brown, high, poor

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-11			---	---	---	1230
Calc. purge volume	1216	4	219	60.2	5.95	TPHg TPHd 8260
	1218	8	234	60.0	6.85	BTEX MTBE Metals
19.87	1221	12	239	60.2	6.85	Purging Method:
	Dry	@ 12 gallons				PVC bailer / Pump

COMMENTS: color, turbidity, recharge, sheen

dark brown, high, good

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-12			---	---	---	1530
Calc. purge volume	1514	5	164	60.9	6.95	TPHg TPHd 8260
	1516	10	165	61.3	6.67	BTEX MTBE Metals
18.60	1518	15	176	61.3	6.91	Purging Method:
	1520	18.5	178	61.4	6.915	PVC bailer / Pump

COMMENTS: color, turbidity, recharge, sheen

brown, low, good

# PURGING DATA

SHEET 6 OF

Job No.: FNC-3 Location: 390 S. Fortuna Blvd Date: 3-24-05 Tech: SR

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH	
MW-13			---	---	---	1150
Calc. purge volume	1136	8.0	110	59.8	5.74	Sample for: <input checked="" type="checkbox"/> TPHg <input type="checkbox"/> TPHd    8260 <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE    Metals
31.99	1137	16.0	108	58.8	5.74	Purging Method: PVC bailer / Pump
	1140	24.1	103	60.0	5.74	Sampling Method: Dedicated / <input checked="" type="checkbox"/> Disposable bailer
	1143	32.0	106	58.3	5.73	Sample at: 1500
	COMMENTS: color, turbidity, recharge, sheen					brown, low, good
MW-14			---	---	---	1500
Calc. purge volume	1480	1.5	353	61.5	6.65	Sample for: <input checked="" type="checkbox"/> TPHg <input type="checkbox"/> TPHd    8260 <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE    Metals
5.56	1485	3.0	404	62.4	6.30	Purging Method: PVC bailer / Pump
	1490	4.5	409	61.9	6.20	Sampling Method: Dedicated / <input checked="" type="checkbox"/> Disposable bailer
	1493	5.5	434	62.9	6.17	Sample at: 1000
	COMMENTS: color, turbidity, recharge, sheen					brown, low, good
MW-15			---	---	---	1000
Calc. purge volume	0947	1	203	58.6	6.85	Sample for: <input checked="" type="checkbox"/> TPHg <input type="checkbox"/> TPHd    8260 <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE    Metals
4.40	0949	2	227	59.7	6.86	Purging Method: <input checked="" type="checkbox"/> PVC bailer / Pump
	0951	3	244	60.2	6.86	Sampling Method: Dedicated / <input checked="" type="checkbox"/> Disposable bailer
	0953	4	246	60.6	6.86	Sample at: 1000
	COMMENTS: color, turbidity, recharge, sheen					brown, high, good



Report Number : 41831

Date : 1/10/2005

Scott Ferriman  
Blue Rock Environmental, Inc.  
535 3rd Street, Suite 100  
Eureka, CA 95501

Subject : 3 Water Samples  
Project Name : Fortuna Beacon  
Project Number : FNC-3

Dear Mr. Ferriman,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff".

Joel Kiff



Report Number : 41831

Date : 1/10/2005

Project Name : Fortuna Beacon

Project Number : FNC-3

Sample : EX-1 INF

Matrix : Water

Lab Number : 41831-01

Sample Date : 1/3/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	520	1.0	ug/L	EPA 8260B	1/6/2005
Toluene	49	1.0	ug/L	EPA 8260B	1/6/2005
Ethylbenzene	54	1.0	ug/L	EPA 8260B	1/6/2005
Total Xylenes	35	1.0	ug/L	EPA 8260B	1/6/2005
Methyl-t-butyl ether (MTBE)	40	1.0	ug/L	EPA 8260B	1/6/2005
TPH as Gasoline	1900	100	ug/L	EPA 8260B	1/6/2005
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	1/6/2005
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	1/6/2005

Sample : EX-2 INF

Matrix : Water

Lab Number : 41831-02

Sample Date : 1/3/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	6000	25	ug/L	EPA 8260B	1/7/2005
Toluene	16000	25	ug/L	EPA 8260B	1/7/2005
Ethylbenzene	2100	25	ug/L	EPA 8260B	1/7/2005
Total Xylenes	14000	25	ug/L	EPA 8260B	1/7/2005
Methyl-t-butyl ether (MTBE)	< 25	25	ug/L	EPA 8260B	1/7/2005
TPH as Gasoline	70000	2500	ug/L	EPA 8260B	1/7/2005
Toluene - d8 (Surr)	92.9		% Recovery	EPA 8260B	1/7/2005
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	1/7/2005

Approved By:

Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800